City of Rohnert Park

2011 Update to the Public Facilities Finance Plan

Final

This page intentionally left blank

Resolution updating the PFF Schedule: adopted 5/8/12

RESOLUTION NO. 2012-44

A RESOLUTION OF THE CITY COUNCIL OF ROHNERT PARK UPDATING THE PUBLIC FACILITIES FEE SCHEDULE FOR ALL DEVELOPMENT WITHIN THE CITY OF ROHNERT PARK BY REPEALING AND REPLACING THE FEE SCHEDULE ESTABLISHED BY RESOLUTION NO. 2011-112

WHEREAS, the General Plan of the City of Rohnert Park requires that new development pay its proportionate share of the cost of capital improvements made necessary by that new development; and

WHEREAS, on November 8, 2011 the City Council of the City of Rohnert Park conducted a duly noticed public hearing to receive and consider public comments on the 2011 Update to its Public Facilities Finance Plan (2011 Update) and the recommended Public Facilities (PF) set forth in it, and upon completion of that hearing the City Council unanimously adopted Resolution 2011-109 accepting the 2011 Update; and

WHEREAS, the City Council, by enacting Ordinance No. 840 on November 22, 2011, determined that a single fee program covering all planned facilities provides a more clear and easily administered method for complying with such General Plan policies;

WHEREAS, pursuant to Resolution No. 2011-112 the City Council of the City of Rohnert Park the Council established Public Facilities fees based upon the 2011 Update, which was made available for public review at the Office of the City Clerk for at least fourteen days prior to the public hearing on said Resolution;

WHEREAS, the City set the amount of the fee based on the 2011 Update and adopted a fee schedule set forth in <u>Attachment 1</u> to Resolution No. 2011-112;

WHEREAS, due to a clerical error, the <u>Attachment 1</u> presented to the City Council was not the most current version of the Public Facilities fee schedule;

WHEREAS, the City Council wishes to correct the clerical error by updating the fee schedule with the fee schedule set forth in <u>Attachment 1A</u>, attached hereto;

WHEREAS, the PF fees set forth in <u>Attachment 1A</u> are designed to supersede those same PF fees in <u>Attachment 1</u>, but shall have no effect on the remainder of Resolution No. 2011-112;

WHEREAS, adopting an accurate Public Facilities fee schedule is to the benefit of all parties involved in developing property because it assures that each development supports its fair share of needed facilities;

WHEREAS, the City Council finds and determines as follows:

- A. The 2011 Update complies with California Government Code Section 66001 by establishing the basis for imposition of fees on new development. In particular, the 2011 Update:
 - 1. Identifies the purpose of the fee;
 - 2. Identifies the use to which the fee will be put;
 - 3. Shows a reasonable relationship between the fee's use and the type of development project on which the fee is imposed;

- 4. Shows a reasonable relationship between the need for the public facility and the type of development project on which the fee is imposed because the new facilities are sized to accommodate the increased population and increased vehicle trips that will be generated by each type of development; and
- 5. Shows a reasonable relationship between the amount of the fee and the cost of the public facility or portion of the public facility attributable to the development on which the fee is imposed because the proposed fees are proportional to the new population and new traffic generated by each type of development.
- B. The fees collected pursuant to this Resolution shall be used to finance the public facilities described or identified in the *2011 Update* or other public facility master plans as may from time to time be adopted by the City Council.
- C. After considering the specific project descriptions and cost estimates identified in the 2011 *Update*, the City Council approves such project descriptions and cost estimates, and finds them reasonable as the basis for calculating and imposing an updated PF Fee.
- D. The projects and fee methodology identified in the 2011 Update continue to be consistent with the City's General Plan including recent updates to the General Plan.
- E. The 2011 Update categorically exempt from environmental review pursuant to the California Environmental Quality Act guidelines section 15061(b)(3). The intent of the PF Program, the 2011 Update and the proposed PF fees is to provide one means of mitigating potential environmental impacts which have been identified in environmental analyses of other planning efforts, including the General Plan EIR.

WHEREAS, notice of the public hearing before the City Council on this correction to the PF Fees was published twice in the newspaper for at least ten (10) days pursuant to Government Code 6062(a) and was mailed to interested persons who requested the information fourteen (14) days in advance;

WHEREAS, for at least ten (10) days prior to the public hearing a copy of the 2011 Update and the corrected PF Fee Schedule was made available for public review at the City Clerk's office;

NOW, THEREFORE, IT IS HEREBY RESOLVED by the City Council of the City of Rohnert Park, that Resolution No. 2011-112 is amended as follows:

1. **Amendment of Paragraph 2**. Paragraph 2 (Amount of Fee) of Resolution No. 2011-112 is amended in its entirety to read as follows:

The PF Fee for various classes of land use and various benefiting areas are set forth in Attachment 1A, which is attached hereto and incorporated by this reference. The land use classes set forth are intended to be generally consistent with the Land Use Framework outline in the General Plan including recent updates to the General Plan and that Land Use Framework should be consulted as necessary to support accurate determination of fees.

2. **Attachments.** Attachment 1 to Resolution No. 2011-112 is hereby repealed in its entirety and replaced by <u>Attachment 1A</u>, which is attached hereto and incorporated by this reference.

BE IT FURTHER RESOLVED by the City Council of the City of Rohnert Park, that:

1. Recitals. The recitals to this Resolution and true and correct and material to the adoption of

this Resolution.

- 2. **Effect on Resolution 2011-12**. Except as expressly provided for herein, the adoption of this Resolution shall have no effect on the Resolution 2011-112, which shall remain in full force and effect.
- 3. **Judicial Action to Challenge this Resolution**. Any judicial action or proceeding to attack, review, set aside, void or annul this Resolution shall be brought within 120 days of the date of adoption of this Resolution.
- 4. **Severability**. If any provision or clause, or paragraph of this resolution or the imposition of a PF fee for any project with the *2011 Update* or the application thereof to any person or circumstance shall be held invalid, such invalidity shall not affect the other provisions of this resolution or other fees levied by this resolution which can be given effect without the invalid provisions or application of fees, and to this end the provisions of the resolution are declared to be severable.
- 5. **Effective Date.** Pursuant to Government Code section 60017, this Resolution shall take effect sixty (60) days after its adoption.

DULY AND REGULARLY ADOPTED by the City Council of the City of Rohnert Park this 8th day of May, 2012 by the following vote:

AYES:

FIVE (5)

Councilmember Ahanotu, Belforte, Callinan, Stafford and Mayor Mackenzie

NOES:

ATTEST:

NONE (0)

ABSENT: NONE (0)

ASBSTAIN:NONE (0)

CITY OF ROHNERT PARK

Interim Deputy City Clerk

AHANOTU: AYE BELFORTE: AYE CALLINAN: AYE STAFFORD: AYE MACKENZIE: AYE

Mayor

AYES: (5) NOES: (0) ABSENT: (0) ABSTAIN: (0)

CALIFORNIA

Exhibit(s): Attachment 1A

Attachment 1A

Public Facilities Fee Schedule

Table 1 Residential Fees

			740		Public Facilitie	es Fee Zones			***************************************	
Land Use Designation	Infill East of Hwy 101	Infill West of Hwy 101	Northeast SPA	University District SPA	Southeast SPA	Sonoma Mountain Village PD	Northwest SPA	Wilfred Dowdell SPA	Stadium Lands PD	Canon Manor SPA
Single Family Residential (Unit)	\$17,967	\$19,445	\$27,873	\$28,270	\$25,590	\$21,945	NA	NA	NA	\$20,130
Multi-Family Residential (Unit)	\$11,569	\$12,520	\$17,340	\$17,434	\$16,560	\$14,181	\$12,873	NA	\$12,964	\$13,144
Senior Housing (Unit)	\$10,983	\$11,907	NA	NA	NA	NA	NA	NA	NA	NA
Assisted Living (Unit)	\$9,551	\$10,013	NA	NA	NA	NA	NA	NA	NA	NA

Table 2 Non-Residential Fees Applied to Enclosed Thousand Square Feet (TSF)

					Public Faciliti	es Fee Zones				
Land Use Designation	Infill ² East of Hwy 101	Infill ² West of Hwy 101	Northeast SPA	University District SPA	Southeast SPA	Sonoma Mountain Village PD	Northwest SPA	Wilfred Dowdell SPA	Stadium Lands PD	Canon Manor SPA
General Office (enclosed tsf)	\$8,264	\$9,586	NA	\$8,678	\$8,678	\$8,678	\$9,586	\$9,586	\$9,586	NA
Hotel/Motel (enclosed tsf)	\$5,916	\$6,593	NA	\$6,068	\$6,068	\$6,068	\$6,401	\$6,401	\$6,401	NA
Retail (enclosed tsf)	\$12,413	\$13,253	NA	\$12,676	\$12,676	\$12,676	\$13,253	\$13,253	\$13,253	NA
Light Industrial (enclosed tsf)	\$2,661	\$2,966	NA	\$2,756	\$2,756	\$2,756	\$2,966	\$2,966	\$2,966	NA
Heavy Industrial (enclosed tsf)	\$2,661	\$2,966	NA	\$2,756	\$2,756	\$2,756	\$2,966	\$2,966	\$2,966	NA
Warehouse (enclosed tsf)	\$2,140	\$2,446	NA	\$2,236	\$2,236	\$2,236	\$2,446	\$2,446	\$2,446	NA

Attachment 1A

Public Facilities Fee Schedule

Table 3 Non-Residential Fees Applied to Gallons of Wastewater Generated (GAL)

					Public Faciliti	es Fee Zones				····
Land Use Designation	Infill ²	Infill ²	Northeast	University	Southeast	Sonoma	Northwest	Wilfred	Stadium	Canon
	East of	West	SPA	District SPA	SPA	Mountain	SPA	Dowdell	Lands	Manor
	Hwy	of Hwy				Village PD		SPA	PD	SPA
	101	101								
General Office (gallon)	\$64.30	\$64.30	NA	\$109.49	\$106.42	\$106.42	\$64.30	\$64.30	\$64.30	\$106.42
Hotel/Motel (gallon)	\$64.30	\$64.30	NA	\$109.49	\$106.42	\$106.42	\$64.30	\$64.30	\$64.30	\$106.42
Retail (gallon)	\$64.30	\$64.30	NA	\$109.49	\$106.42	\$106.42	\$64.30	\$64.30	\$64.30	\$106.42
Light Industrial (gallon)	\$64.30	\$64.30	NA	\$109.49	\$106.42	\$106.42	\$64.30	\$64.30	\$64.30	\$106.42
Heavy Industrial (gallon)	\$64.30	\$64.30	NA	\$109.49	\$106.42	\$106.42	\$64.30	\$64.30	\$64.30	\$106.42
Warehouse (gallon)	\$64.30	\$64.30	NA	\$109.49	\$106.42	\$106.42	\$64.30	\$64.30	\$64.30	\$106.42

Table 4 Non-Residential Fees Applied to Disturbed Site Area (TSF)

					Public Faciliti	es Fee Zones				
Land Use Designation	Infill ² East of Hwy 101	Infill ² West of Hwy 101	Northeast SPA	University District SPA	Southeast SPA	Sonoma Mountain Village PD	Northwest SPA	Wilfred Dowdell SPA	Stadium Lands PD	Canon Manor SPA
General Office (disturbed tsf)	NA	NA	NA	\$267	NA	NA	\$243	\$243	\$243	NA
Hotel/Motel (disturbed tsf)	NA	NA	NA	\$267	NA	NA	\$243	\$243	\$243	NA
Retail (disturbed tsf)	NA	NA	NA	\$267	NA	NA	\$243	\$243	\$243	NA
Light Industrial (disturbed tsf)	NA	NA	NA	\$267	NA	NA	\$243	\$243	\$243	NA
Heavy Industrial (disturbed tsf)	NA	NA	NA	\$267	NA	NA	\$243	\$243	\$243	NA
Warehouse (disturbed tsf)	NA	NA	NA	\$267	NA	NA	\$243	\$243	\$243	NA

Attachment 1A

Public Facilities Fee Schedule Notes

- 1. See 2011 Update to the Public Facilities Finance Plan for detailed presentation of calculations (Adopted 11/8/11 by City Council Resolution 2011-109)
- 2. "Infill Development" is all development (new, remodel or reconstruction) outside of the defined Specific Plan Areas or Planned Developments
- 3. Non-residential fees are calculated by summing the values from Tables 2, 3 and 4 for the type of land use proposed
- 4. "Mixed Use" fees are calculated by summing the fees calculated for each type of land use within the mixed use proposal
- 5. NA or Not Applicable means that a particular fee component does not apply within the defined geographic area because:
 - a. New development within that geographic does not create impacts to certain infrastructure systems; or
 - b. Approved Specific Plans do not include certain land use classes, hence fee components have not been computed
- 6. Enclosed Thousand Square Feet is calculated based on the gross floor area, as defined in Chapter 17.04 of the Municipal Code including any patio area under a horizontal projection of the roof, the floor above or other covering, when such area is used for activities integral to the commercial business.
- 7. Disturbed Thousand Square Feet is calculated based on the total area approved for grading on the property.

RESOLUTION NO. 2011-112

A RESOLUTION OF THE CITY COUNCIL OF ROHNERT PARK UPDATING THE PUBLIC FACILITIES FEE FOR ALL DEVELOPMENT WITHIN THE CITY OF ROHNERT PARK AND REPEALING RESOLUTION NOS. 2006-165 AND 2008-126

WHEREAS, the General Plan of the City of Rohnert Park requires that new development pay its proportionate share of the cost of capital improvements made necessary by that new development; and

WHEREAS, the City of Rohnert Park implements this requirement through its *Public Facilities* Finance Plan and the setting and collection of Public Facilities (PF) fees and sewer capacity fees, which are reviewed from time to time to assure that they accurately estimate costs and the allocation of those costs; and

WHEREAS, on November 8, 2011 the City Council of the City of Rohnert Park conducted a duly noticed public hearing to receive and consider public comments on the 2011 Update to its Public Facilities Finance Plan (2011 Update) and the recommended Public Facilities (PF) set forth in it, and upon completion of that hearing the City Council unanimously adopted Resolution 2011-109 accepting the 2011 Update; and

WHEREAS, for at least fourteen days prior to the public hearing, a copy of the 2011 Update was available for public review at the Office of the City Clerk; and

WHEREAS, since the most recent adoption of the PF Fee Schedule (Resolution 2008-126) and the Sewer Capacity Charge Schedule (Resolution 2006-165), the City has completed environmental review of a number of planned developments and approved changes in both land use and infrastructure required for mitigation; and

WHEREAS, since the most recent adoption of the PF Fee Schedule and the Sewer Capacity Charge Schedule (Resolution 2006-165), the City and the Santa Rosa Subregional System have constructed some projects and updated costs for facilities included in the PF Fee Program and the Sewer Capacity Charge Program and this has resulted in changes to estimated costs; and

WHEREAS, since the adoption of the PF Fee Schedule and the Sewer Capacity Charge Schedule, the City has determined that a single fee program covering all planned facilities will provide a more clear and easily administered method for complying with the General Plan policies requiring that new development pay for the impacts it creates and implemented that decision with the passage of Ordinance No. 840 on November 22, 2011; and

WHEREAS, it is to the benefit of all parties involved in developing property that the PF Fee Program is consistent with current projections of land use, infrastructure and costs to assure that each development supports its fair share of needed facilities; and

WHEREAS, the City Council finds and determines as follows:

- A. The 2011 Update complies with California Government Code Section 66001 by establishing the basis for imposition of fees on new development. In particular, the 2011 Update:
 - 1. identifies the purpose of the fee;
 - 2. identifies the use to which the fee will be put;
 - 3. shows a reasonable relationship between the fee's use and the type of development project on which the fee is imposed;

- 4. shows a reasonable relationship between the need for the public facility and the type of development project on which the fee is imposed because the new facilities are sized to accommodate the increased population and increased vehicle trips that will be generated by each type of development; and
- 5. shows a reasonable relationship between the amount of the fee and the cost of the public facility or portion of the public facility attributable to the development on which the fee is imposed because the proposed fees are proportional to the new population and new traffic generated by each type of development.
- B. The fees collected pursuant to this Resolution shall be used to finance the public facilities described or identified in the 2011 Update or other public facility master plans as may from time to time be adopted by the City Council.
- C. After considering the specific project descriptions and cost estimates identified in the 2011 Update, the City Council approves such project descriptions and cost estimates, and finds them reasonable as the basis for calculating and imposing an updated PF Fee.
- D. The projects and fee methodology identified in the 2011 Update continue to be consistent with the City's General Plan including recent updates to the General Plan.
- E. The 2011 Update categorically exempt from environmental review pursuant to the California Environmental Quality Act guidelines section 15061(b)(3). The intent of the PF Program, the 2011 Update and the proposed PF fees is to provide one means of mitigating potential environmental impacts which have been identified in environmental analyses of other planning efforts, including the General Plan EIR.

NOW, THEREFORE, it is hereby resolved by the City Council of the City of Rohnert Park, that:

- Amount of Fee. The PF Fee for various classes of land use and various benefiting areas are set
 forth in Attachment 1. The land uses classes set forth are intended to be generally consistent with
 the Land Use Framework outline in the General Plan including recent updated to the General Plan
 and that Land Use Framework should be consulted as necessary to support accurate determination
 of fees.
- 2. Use of Fee. The fee shall be solely used: (a) for the purposes described in the 2011 Update; (b) for reimbursing the City for the development's fair share of those capital improvements already constructed by the City; or (c) for reimbursing developers who have constructed public facilities described in the 2011 Update or other facility master plans adopted from time to time by the City Council where those facilities were beyond that needed to mitigate the impacts of the developers' project or projects.
- 3. Automatic Increase. The PF Fee will automatically increase on July 1 in each year hereafter in accordance with any increases in the Engineering News Record Construction Cost Index for the San Francisco Bay Area for the fiscal year ending on such July 1.
- 4. Fee Review. Annually, as part of the budget process, the City Manager shall review the estimated cost of the described capital improvements, the continued need for those improvements and the reasonable relationship between such need and the impacts of the various types of development pending or anticipated and for which this fee is charged. The City Manager shall report his or her findings to the City Council at a noticed public hearing and recommend any adjustment to this fee or other action as may be needed.
- 5. Judicial Action to Challenge this Resolution. Any judicial action or proceeding to attack, review, set aside, void or annul this resolution shall be brought within 120 days of the date of adoption of this resolution.
- 6. Severability. If any provision or clause, or paragraph of this resolution or the imposition of a PF

fee for any project with the 2011 Update or the application thereof to any person or circumstance shall be held invalid, such invalidity shall not affect the other provisions of this resolution or other fees levied by this resolution which can be given effect without the invalid provisions or application of fees, and to this end the provisions of the resolution are declared to be severable.

- 7. Repeal. Resolution Number 2006-165 and Resolution Number 2008-126 are hereby repealed.
- 8. Effective Date. This Resolution shall take effect thirty (30) days after its adoption.

DULY AND REGULARLY ADOPTED by the City Council of the City of Rohnert Park this 22nd day of November, 2011.

CITY OF ROHNERT PARK

ATTEST:

City Clerk

, ,

APPROVED AS TO FORM:

Ass人 City Attorney

Texa Va 1 1 1 1 1 1 Co

AHANOTU: AYE CALLINAN: ABSENT MACKENZIE: AYE STAFFORD: AYE BELFORTE: AYE

AYES: (4) NOES: (0) ABSENT: (1) ABSTAIN: (0)

Attachment 1

This Attachment 1 to Resolution No. 2011-112 is voided by Resolution No. 2012-44 adopted by the City Council at its meeting of May 8, 2012.

		Oity \	Journer	i at its i		j Oi ivia	y 0, 20	-		
Land Use Designation	Infill	Infill	Northeast	University	Southeast	Sonoma	Northwest	Wilfred	Stadium	Canon
	East of	West	SPA	District SPA	SPA	Mountain	SPA	Dowdell	Lands	Manor
	Hwy	of Hwy				Village PD		SPA	PD	SPA
	101.	101							·	
Single Family Residential (Unit)	\$17,967	\$19,445	\$27,873	\$28,270	\$25,590		NA	NA	NA	\$20,130
Multi-Family Residential (Unit)	\$11,569	\$12,520	\$17,340	\$17,434	\$16,560			NA		\$13,144
Senior Housing (Unit)	\$10,983	\$11,907	NA	NA	NA.	NA	NA	NA	NA	NA
Assisted Living (Unit)	\$9,551	\$10,013	NA	NA	NA	NA	NA	NA	NA	NA

Table 2 Non-Residential Fees Applied to Enclosed Thousand Square Feet (TSF)

			· · · · · · · · · · · · · · · · · · ·		Public Faciliti	es Fee Zones				
Land Use Designation	infill ²	Infill ²	Northeast	University	Southeast	Sonoma	Northwest	Wilfred	Stadium	Canon
	East of	West	SPA	District SPA	SPA	Mountain	SPA	Dowdell	Lands	Manor
	Hwy	of Hwy				Village PD		SPA	PD	SPA
	101	101		•						٠.
General Office (enclosed tsf)	\$8,264	\$9,586	NA	\$8,678	\$8,678	\$8,678	\$9,586	\$9,586	\$9,586	NA
Hotel/Motel (enclosed tsf)	\$5,916	\$6,401	NA	\$6,068	\$6,068	\$6,068	\$6,401	\$6,401	\$6,401	NA
Retail (enclosed tsf)	\$12,418	\$13,253	NA	\$12,676	\$12,676	\$12,676	\$13,253	\$13,253	\$13,253	NA
Light Industrial (enclosed tsf)	\$2,661	\$2,966	NA	\$2,756	\$2,756	\$2,756	\$2,966	\$2,966	\$2,966	NA
Heavy Industrial (enclosed tsf)	\$2,661	\$2,966	NA	\$2,756	\$2,756	\$2,756	\$2,966	\$2,966	\$2,966	NA
Warehouse (enclosed tsf)	\$2,140	\$2,446	NA	\$2,236	\$2,236	\$2,236	\$2,446	\$2,446	\$2,446	NA

This Attachment 1 to Resolution No. 2011-112 is voided by Resolution No. 2012-44 adopted by the City Council at its meeting of May 8, 2012

	Gii	iv Co	uncii a	t its me	etina c	ot Mav a	8. 2012	. _		,
Land Use Designation	1111111	1111111	IVUITIEAST	Oniversity	Southeast	Sonoma	IVOITIVVEST	vvnneu	Stadium	Canon
	East of	West	SPA .	District SPA	SPA	Mountain	SPA	Dowdell	Lands	Manor
	Hwy	of Hwy				Village PD		SPA	PD	SPA
	101	101								
General Office (gallon)	\$62.43	\$62.43	NA	\$106.30	\$103.32	\$103.32	\$62.43	\$62.43	\$62.43	\$103.32
Hotel/Motel (gallon)	\$62.43	\$62.43	NA	\$106.30	\$103.32	\$103.32	\$62.43	\$62.43	\$62.43	\$103.32
Retail (gallon)	\$62.43	\$62.43	NA	\$106.30	\$103.32	\$103.32	\$62.43	\$62.43	\$62.43	\$103.32
Light Industrial (gallon)	\$62.43	\$62.43	NA	\$106.30	\$103.32	\$103.32	\$62.43	\$62.43	\$62.43	\$103.32
Heavy Industrial (gallon)	\$62.43	\$62.43	NA ·	\$106.30	\$103.32	\$103.32	\$62.43	\$62.43	\$62.43	\$103.32
Warehouse (gallon)	\$62.43	\$62.43	NA	\$106.30	\$103.32	\$103.32	\$62.43	\$62.43	\$62.43	\$103.32

Table 2 Non-Residential Fees Applied to Disturbed Site Area (TSF)

					Public Faciliti	es Fee Zones				
Land Use Designation	Infill ² East of Hwy 101	Infill ² West of Hwy 101	Northeast SPA	University District SPA	Southeast SPA	Sonoma Mountain Village PD	Northwest SPA	Wilfred Dowdell SPA	Stadium Lands PD	Canon Manor SPA
General Office (enclosed tsf)	NA	NA	NA .	\$267	NA .	NA	\$236	\$236	\$236	NA
Hotel/Motel (enclosed tsf)	NA	NA	NA	\$267	NA	NA	\$236	\$236	\$236	NA
Retail (enclosed tsf)	NA	NA	NA	\$267	NA	NA	\$236	\$236	\$236	NA
Light Industrial (enclosed tsf)	NA _	NA	NA	\$267	· NA	NA	\$236	\$236	\$236	NA
Heavy Industrial (enclosed tsf)	NA	NA	NA:	\$267	NA	NA	\$236	\$236	\$236	NA
Warehouse (enclosed tsf)	NA	NA	NA	\$267	NA	NA	\$236	\$236	\$236	NA

Attachment 1

Public Facilities Fee Schedule Notes

1. See 2011 Updat

2. "Infill Developm
Developments

This Attachment 1 to Resolution No. 2011-112 is voided by Resolution No. 2012-44 adopted by the City Council at its meeting of May 8, 2012.

Council Resolution

Planned

- 3. Non-residential fees are calculated by summing the values from Tables 2, 3 and 4 for the type of land use proposed
- 4. "Mixed Use" fees are calculated by summing the fees calculated for each type of land use within the mixed use proposal
- 5. NA or Not Applicable means that a particular fee component does not apply within the defined geographic area because:
 - a. New development within that geographic does not create impacts to certain infrastructure systems; or
 - b. Approved Specific Plans do not include certain land use classes, hence fee components have not been computed
- 6. Enclosed Thousand Square Feet is calculated based on the gross floor area, as defined in Chapter 17.04 of the Municipal Code including any patio area under a horizontal projection of the roof, the floor above or other covering, when such area is used for activities integral to the commercial business.
- 7. Disturbed Thousand Square Feet is calculated based on the total area approved for grading on the property.

Contents

E>	recutive Summary	1
	ES.1 Introduction and Purpose	1
	ES.2 Scope of Analysis	2
	ES.3 Capital Facilities included in the Public Facilities Finance Plan	2
	ES.4 Summary of the Nexus Analysis for Capital Facilities	7
	ES.5 Summary of Base Mitigation Fee Burdens	10
	ES.6 Approval Process and Annual Updates	11
	ES.7 Bond Financing Districts	11
1	Authority, Methodology and Structure of the Plan	15
	1.1 Authority	15
	1.2 Methodology	15
	1.2.1 Incremental Cost Method	16
	1.2 2 System Buy-In Method	16
	1.2.3 Combined Method – Future System Buy-in	17
	1.2.4 Methodology Used	17
	1.3 Structure of the Plan	17
2	Land Uses & Basis of Cost Estimates	19
	2.1 Introduction	19
	2.2 Existing and Proposed Land Uses	19
	2.3 Growth Management and Absorption Rates	2 3
	2.4 Basis of Cost Estimates	2 3
	2.5 Land Acquisition, Rights-of-Way and Environmental Mitigation Costs	25
3	Roadway Facilities	27

0205609003

		Finai
	3.1 Introduction	27
	3.2 Roadway Facilities Description	27
	3.3 Nexus Findings for Roadway Facilities	33
	3.3.1 Definition of Improvements	33
	3.3.2 Cost Allocation Factors	33
	3.3.3 Impact Zone Allocation	34
	3.3.4 Fee Component Calculations	34
	3.3.5 Nexus Findings for Roadway Improvements	37
4	Public Safety & Public Facilities	39
	4.1 Introduction	39
	4.2 Public Safety Improvements	39
	4.3 Public Facilities Improvements	41
	4.4 Nexus Findings for Public Safety & Public Facilities	44
	4.4.1 Definition of Improvements	44
	4.4.2 Cost Allocation Factors	44
	4.4.3 Impact Zone Allocation	45
	4.4.4 Fee Component Calculations	45
	4.4.5 Nexus Findings for Public Facilities Improvements	51
5	Sewer Facilities	55
	5.1 Introduction	55
	5.2 Description of Sewer Facilities	55
	5.2.1 City Sewer Infrastructure	56
	5.2.2 Subregional System Facilities	59
	5.2.3 Canon Manor Project Management	63
	5.3 Nexus Findings for Sewer Facilities	63

		Final
	5.3.1 Definition of Improvements	63
	5.3.2 Cost Allocation Factors	63
	5.3.3 Impact Zone Allocation	68
	5.3.4 Fee Component Calculations	69
	5.3.5 Nexus Findings for Sewer Improvements	74
6	Water System Facilities	77
	6.1 Introduction	77
	6.2 Water System Facilities Description	77
	6.3 Nexus Findings for Water Facilities	77
	6.3.1 Definition of Improvements	77
	6.3.2 Cost Allocation Factors	79
	6.3.3 Impact Zone Allocation	80
	6.3.4 Fee Component Calculations	80
	6.3.5 Nexus Findings for Water System Improvements	81
	7 Drainage Improvements	83
	7.1 Introduction	83
	7.2 Drainage Facilities Description	83
	7.3 Nexus Findings for Drainage Improvements	84
	7.3.1 Definition of Facilities Included	84
	7.3.2 Cost Allocation Factors	84
	7.3.3 Impact Zone Calculations	84
	7.3.4 Fee Component Calculations	84
	7.3.5 Nexus Findings for Drainage Improvements	85
8	Funding and Financing Strategy for Capital Improvements	87
	8.1 Introduction	87

	* *
	Final
8.2 "Pay-as-you-go" Mitigation Fees for New Development	87
8.3 Land Secured Bond Financing for New Development	89
8.3.1 Benefit Assessments	91
8.3.2 Mello-Roos Community Facilities Districts	92
ist of Appendices	

- A. Land Use Update
- B. Cost Estimates
- C. Review of Capacity Needs for Roadway Projects
- D. Canon Manor Agreement
- E. Adopted Goals and Policies for Mello Roos Financing Districts

Executive Summary

ES.1 Introduction and Purpose

In 2004, the City of Rohnert Park (City) adopted its Public Facilities Finance Plan (PFFP) which outlined a comprehensive program for managing the cost of constructing the infrastructure improvements that will support new development. The PFFP implemented the City's General Plan policies that call for new development to pay a "fair-share" of the costs of improvements required to serve new development. The fair share analysis described in the General Plan is consistent with California Government Code Section 66000 et. seq. (the Mitigation Fee Act, hereinafter the Act). The Act requires that an agency develop a nexus or reasonable relationship between the mitigation fees it charges and the infrastructure required to serve new development. New development can only be required to pay its share of the costs; agencies must develop other funding sources for improvements or rehabilitation required to serve the existing customer base.

The PFFP was updated in 2006 (the 2006 PFFP Update) in order to reflect some land use changes and updated project costs. In 2006, the City also adopted its Sewer Capacity Charge Program, which currently provides a system for the City to collect capacity charges to support expansions to the wastewater treatment and disposal and water reclamation facilities, operated by the Santa Rosa Subregional System, which provides service to the City.

Since 2006, there have been changes in both the planned development within the City and its sphere of influence and changes in the way the Subregional System plans to implement its long-term capital improvement program and recover costs. In addition, the City has completed the construction of some facilities included in the 2006 PFFP Update and actual construction and financing costs are available (in 2006 only estimates were available). Finally, in order to enhance clarity and administrative ease, the City is proposing to combine the PFFP and Sewer Capacity Charge programs into a single program.

Because of these changes and in order to bring additional clarity to its fee program, the City undertook this update (the 2011 Update) to bring forward current planned land uses and cost estimates and to combine the PF Fee and Sewer Capacity Charge Programs into a single, comprehensive program.

This 2011 PFFP Update reflects:

- Changes to planned land use, particularly a significant planned development proposal known as Sonoma Mountain Village;
- Combination of all facilities included in the PFFP Program and Sewer Capacity Charge Program into a single fee program;
- Updated cost estimates for all facilities including actual construction and financing costs, for the Sewer Interceptor Outfall Project Phase 1, the Eastside Trunk Sewer Phase 1 and City Hall.
- Elimination of roadway and intersection improvements that more detailed engineering analysis have indicated are not necessary to mitigate impacts from development;
- Addition of roadway and intersection improvements that detailed engineering analysis indicated are necessary to mitigate impacts from development; and
- Addition of regional drainage improvements at the request of the development community.

This update also presents strategies for phasing and bond financing that allow facility construction to align with demands from new development.

The City adopts and administers its Public Facilities Fees (PF Fees) in accordance with the Act. Because of this, throughout this document, the terms PF Fee, development impact fee and mitigation fee are used interchangeably.

ES.2 Scope of Analysis

The City's General Plan sets land-use patterns and planned population growth. The General Plan describes potential development within five designated specific plan areas (SPAs): the Northwest SPA, the Wilfred Dowdell SPA, the Northeast SPA, the University District SPA and the Southeast SPA. In addition, the City is anticipating infill development in two planned development areas known as the Stadium Lands and Sonoma Mountain Village.

The City's General Plan also discusses the Canon Manor SPA, a rural-residential development located east of the City's incorporated area. The City provides sewer service to the Canon Manor SPA, under a contract with the County of Sonoma. Land uses in Canon Manor impact the size of the Eastside Trunk Sewer, the Sewer Interceptor Outfall Project and the Subregional System. In addition the City has incurred project management costs associated with supporting the development and construction of the sewer collection system that serves Canon Manor. Therefore, the Canon Manor development is included in the "fair share" analysis for sewer improvements. The City has, and will continue, to collect PF Fees from development in Canon Manor to mitigate its impacts.

This 2011 Update analyzes development impacts, mitigation fee burdens and potential bond financing programs for the following categories of capital improvements:

Roadways

Water System Facilities

Public Facilities

- · Drainage System Facilities
- Sewer System Facilities

ES.3 Capital Facilities included in the Public Facilities Finance Plan

In July of 2000, the City Council adopted a General Plan with a planning horizon through year 2020. The General Plan outlined projected growth and land use patterns and identified major infrastructure systems that the City would need to support these land use patterns. In July of 2002, the City Council approved a 5-year Capital Improvement Program ("CIP") that further refined planned upgrades and modifications to the City's infrastructure for the benefit of the existing population and to support new development. The CIP has been regularly updated to reflect cost increases.

In addition, the City continues to process development applications and review these applications under the California Environmental Quality Act (CEQA). The CEQA documents for proposed development projects provide detailed analysis of the development, its impacts and feasible mitigations for the impacts. These CEQA documents provide additional and more refined analysis of the capital improvements necessary to support planned development. This 2011 Update focuses on capital

improvements identified in the General Plan, the CIP or development-specific CEQA documents, where new development has a "fair-share" contribution.

The PF program does not include all the infrastructure required to serve new development. There are roadways, signals and utilities that are required for each specific development that are outside the scope of the PF Program. Infrastructure and capital improvements included in the PF Program must meet the criteria outlined below.

- The infrastructure or capital facility is part of a coordinated "network" that provides service to existing and new development or to more than one new development. Infrastructure that supports a single development is not included in the PF Fee Program.
- The infrastructure or capital facility is required to mitigate the impact of new development. Infrastructure that serves only existing development is not included in the PF Fee Program.
- Right-of-way and environmental mitigation costs are included in the PF Fee Program only if they
 do not overlap project specific requirements for dedications or mitigations.

Under the Act, the City may use its PF Fees to finance all or part of a project, provided the City does the following:

- Identifies the purpose of the fee;
- Identifies the uses of the fee typically by reference to an approved Capital Improvement Program, General Plan or other public document;
- Establishes a reasonable relationship (or nexus) between the use of the fee and the type of development;
- Establishes a reasonable relationship (or nexus) between the need for capital improvements and the type of development;
- Establishes, when a fee is imposed on a development project, a reasonable relationship between the amount of the fee and the costs of the capital improvements attributable to the development that will pay the fee.

Table ES -1, following, lists the improvements included in this 2011 Update and their cost estimates. Figure ES-1 illustrates their location.

Table ES-1 - Summary Cost Estimate

				New		
	20	11 Total Costs	D	evelopment	% of Program	2006 Total Cost
Roadways	\$	19,490,000	\$	18,588,800	5.50%	\$ 23,180,200
Mitigation & Right of Way	\$	1,362,150	\$	1,362,150	0.38%	\$ -
Bridges	\$	2,923,200	\$	2,923,200	0.83%	\$ 2,999,000
Traffic Control & Intersection Improvements	\$	8,167,875	\$	8,167,875	2.31%	\$ 7,873,500
Public Safety	\$	13,182,856	\$	7,170,121	3.72%	\$ 18,037,200
Public Facilities						
Public Buildings & Master Plans	\$	11,652,200	\$	5,341,724	3.29%	\$ 12,174,500
Westside Utilities	\$	1,605,749	\$	1,605,749	0.45%	\$ -
Median & Frontage Improvements	\$	18,260,890	\$	18,260,890	5.16%	\$ 14,951,513
Sewer System						
Eastside Trunk Sewer Phase 1 Construction	\$	13,761,943	\$	9,122,458	3.89%	\$ 19,496,000
Eastside Trunk Sewer Phase 1 Interest	\$	7,843,392	\$	7,113,957	2.22%	\$ -
Eastside Trunk Sewer Phase 2*	\$	10,637,139	\$	10,210,435	3.00%	\$ -
Eastside Trunk Sewer Phase 2a*	\$	1,150,329	\$	1,039,579	0.32%	\$ -
Eastside Trunk Sewer Phase 3	\$	2,805,235	\$	2,805,235	0.79%	\$ -
Interceptor Outfall Phase 1	\$	23,132,623	\$	7,009,184	6.53%	\$ 18,531,300
Interceptor Outfall Phase 2	\$	6,681,263	\$	1,739,566	1.89%	
Subregional System	\$	202,132,150	\$	52,628,114	57.09%	\$ 295,186,400
Canon Manor Project Management	\$	435,328	\$	96,959	0.12%	\$ -
Water System	\$	2,457,025	\$	2,457,025	0.69%	\$ 2,322,800
Drainage	\$	6,368,331	\$	6,368,331	1.80%	\$ -
Total PF Program	\$	354,049,678	\$	164,011,351	100%	\$ 414,752,413

ENR CCI (San Francisco, CA - September 2011) = 10192.79

The cost estimates for each improvement have been updated based on independent cost estimating efforts. For City Hall, the Interceptor Outfall Project Phase 1 and the Eastside Trunk Sewer Project Phase 1, which are constructed, actual costs including the cost of financing are used. For the Eastside Trunk Sewer Phase 2 and 2a, the design level cost estimate is used. This estimate is expected to be accurate within +/- 20%.

For all other facilities, the cost estimates in this 2011 Update are Class 5 (planning-level) estimates of probable construction cost as defined by the Association for the Advancement of Cost Engineering, International (AACE) as follows:

Generally prepared on very limited information, where little more than proposed plan type, its location, and the capacity are known, and for strategic planning purposes such as but not limited to market studies, assessment of viability, evaluation of alternate schemes, project screening, location and evaluation of resource needs and budgeting, long-range capital planning, etc. Some examples of estimating methods used would include cost/capacity curves and factors, scale-up factors, and parametric and modeling techniques.

Unless specifically noted, the cost estimates do not include right of way acquisition. It is assumed that the needed new right-of-way associated with roadways will be dedicated by the adjoining property owners as a condition of development. This is consistent with General Plan Policy TR-4 which requires right of way dedication as a condition of development.¹

The following facilities include land acquisition costs in the cost estimate:

- The new City Hall building, which the City purchased
- The corporation yard expansion
- The first phases of the Interceptor Outfall and Eastside Trunk Sewer projects
- The extension of Dowdell Avenue from Business Park Drive to 850' south of Business Park Drive
- The Copeland Creek and Northwest detention basins.

When analysis of a capital project under CEQA identifies an adverse impact on an undisturbed, environmentally sensitive area, mitigation is typically required. PFFP facilities that likely require environmental mitigation are:

- Bodway Parkway
- Rohnert Park Expressway
- Dowdell Avenue
- Snyder Lane between G Section & Medical Center Drive
- Keiser Avenue
- Wilfred Avenue

¹ Our Place...Rohnert Park 2020 A Plan for the Future, General Plan, Forth Edition; adopted July 2000, pg 4-11.

Unless specifically noted, the cost estimates do not include the cost of environmental mitigation (wetlands, habitat, etc.). It is assumed that the environmental mitigation will be generally covered by developers as part of their requirements to provide environmental mitigation for their project.

The proposed detention basins will also be constructed in undeveloped areas. However, these basins can be designed to provide sensitive habitat and hence be self-mitigating. For this reason environmental mitigation costs are not included in the cost estimates for the detention basins.

ES.4 Summary of the Nexus Analysis for Capital Facilities

Roadway Improvements: The roadway improvement fee component funds planned improvements to the citywide traffic circulation network. The PFFP includes three types of roadways: existing roadways within the existing City limits that need to be widened to accommodate development (Snyder Lane); new roadways that need to be constructed to accommodate development (Bodway Parkway and portions of Dowdell Avenue); and existing County roadways that are annexed for the benefit of development (Keiser Avenue, Rohnert Park Expressway, Wilfred Avenue and portions of Dowdell Avenue). The cost allocation methodology is different for each type of roadway in order to reflect the different impacts caused by development.

When improvements are planned for existing roadways within the City's 1999 limits, namely Snyder Lane, costs are allocated to new and existing development based on trip generation. This is because development triggers an incremental improvement of an existing facility.

When new roadways are required to serve new development, namely Bodway Parkway and Dowdell Avenue, costs are allocated only to new development based on trip generation potential. This is because the new traffic generated by development triggered the need for the roadway.

When improvements are planned for roadways outside the City's 1999 limits, which are annexed only for the benefit of development, costs are also allocated only to new development, based on trip generation potential. This is because the new development triggered the need for annexation and upgrading of these roadways. This method is used for improvements to portions of Dowdell Avenue, Keiser Avenue, Rohnert Park Expressway and Wilfred Avenue.

Environmental Mitigation and Right-of-Way: This fee component funds environmental mitigation for wetlands and habitat along Bodway Parkway, portions of Dowdell Avenue extension and the Sonoma State University frontage along Rohnert Park Expressway. It also funds right-of-way acquisition for a portion of Dowdell Avenue, where there are no project proponents to dedicate property. All other environmental mitigation and right-of-way is contiguous to planned development and the PF Fee program assumes that the costs of this mitigation and right-of-way dedication will be required of the developer as part of the approval of the planned development. Environmental mitigation and right-of-way costs are allocated on the same basis as the contiguous roadway segment to all new development, because the City would not undertake the construction that required this mitigation or right-of-way except for new development.

Bridges: The bridge mitigation fee component funds the widening of bridges on Dowdell at Business Park Drive, and Snyder at Five, Crane, Hinebaugh and Copeland Creeks. These bridge widenings are

necessary to support the roadway widenings for new development. Bridge widening costs are spread, based on trip generation, to all new development because the City would not undertake the construction that required this mitigation except for new development.

Traffic Control & Intersection Improvements: The traffic control and intersection fee component funds improvements outlined in the City's Traffic Operations Study and the EIRs for various developments. These improvements are necessary to maintain the level of service of the City's circulation system. The improvements included in the PF Fee Program mitigate cumulative impacts from collective new development. Traffic control & intersection improvements that serve the entrance to a single development or that are internal to a Specific Plan Area or Planned Development are not included in the PF Fee Program. These improvements are the responsibility of the individual developer. Traffic control & intersection improvement costs are allocated based on trip generation, to all new development because the City would not undertake the construction that required this mitigation except for new development.

Public Safety: The public safety fee component funds planned improvements including a new Westside Public Safety Station, a new Southside Public Safety Station, and a Training Center currently proposed to be located with the new Westside Public Safety Station. The public safety component is calculated separately for the areas east and west of Highway 101 because different facilities are impacted by development. The analysis spreads the costs of the Westside Public Safety Station to all new and existing development west of Highway 101 based on population equivalency. The analysis spreads the costs of the Southside Public Safety Station to all new development east of Highway 101 based on population equivalency. The analysis spreads the costs of the Training Facilities to all new and existing development in the City based on population equivalency.

Public Facilities: The public facilities component funds the new City Hall, an expansion of the existing corporation yard to serve public safety and public works, water and drainage master plans and the median and frontage improvements along the new and widened roadways. It also funds backbone water, sewer and drainage utilities in Dowdell Avenue to serve new development in the westside SPAs and PDs.

The City Hall, corporation yard improvements and water and drainage master plans serve all new and existing development in the City. The analysis spreads the costs of these facilities to all areas and land uses based on population equivalency.

The median and frontage improvements include curb, gutter, sidewalk, median curb, utility undergrounding and landscaping as necessary to comply with the community design standards outlined in the General Plan and adopted as part of the City standards. All of these improvements are necessary to support new development and ensure compliance with City design standards. The analysis spread the costs of these improvements to all new land uses based on population equivalency.

The Dowdell Avenue utilities serve new development west of Highway 101 and are necessary to provide backbone utility service in this area. The analysis spread the costs of these improvements to all new land uses based on population equivalency, which provides a reasonable estimate of flow contribution to the proposed utilities.

Sewer System: The sewer system fee component funds the Interceptor Outfall Project (Phases 1 and 2), the Eastside Trunk Sewer Project (Phases 1, 2, 2a, and 3), improvements to the Santa Rosa Subregional System and Canon Manor Project Management.

The City has completed the Sewer Interceptor Outfall Project Phase 1 and the Eastside Trunk Sewer Project Phase 1 and it financed the construction through the issuance of bonded debt. Because the City has incurred construction costs and interest costs for these facilities, the sewer system fee component includes principal and interest on the debt that City has already incurred.

For remaining phases of both projects, estimated construction costs are used to calculate the fee component. Interest costs are not applied because the City has not incurred any interest costs for these future project phases.

For the Subregional System costs, the fee component is based on Santa Rosa's cost allocation model which includes the City's total cost share for existing facilities that provide some capacity for new development, and planned facilities that the Subregional System will need to construct in order to have enough capacity for General Plan buildout in Rohnert Park.

For the Canon Manor Project Management costs, the fee component is based on actual costs to date.

The sewer system fee component is calculated by allocating costs to the areas and land uses that create the demand for the capacity. Specifically,

- Eastside Trunk Sewer Phase 1 extends from the City's terminal pump station down Redwood Drive and across Highway 101 to the intersection of Commerce and Avram. The cost allocation for Phase 1 includes a \$5,386,890² allocation to existing users because the Eastside Trunk Sewer has been sized to provide some capacity relief for the existing collection system. The remaining costs are allocated to all new development in the Northeast, University District, Southeast and Canon Manor SPAs and the Sonoma Mountain Village PD. These new developments will all contribute flow to the Eastside Trunk Sewer Phase 1.
- The estimated cost of Eastside Trunk Sewer Phase 2, which runs from the intersection of Commerce and Avram along Avram, Santa Alicia and Southwest Boulevard to its intersection with Snyder Lane, is allocated to all new development in the Northeast, University District, Southeast and Canon Manor SPAs, and the Sonoma Mountain Village PD. These properties contribute flow to the Eastside Trunk Sewer Phase 2.
- The estimated cost of Eastside Trunk Sewer Phase 2a, which runs from the intersection of Southwest and Snyder to the intersection of Snyder and East Cotati, is allocated to all new development in Southeast and Canon Manor SPAs, and the Sonoma Mountain Village PD. These properties contribute flow to the Eastside Trunk Sewer Phase 2a

² The existing users share of the construction cost of Eastside Trunk Sewer Phase 1 is \$4,639,455 (see Table 5-14). The City made a \$3,706,219 cash contribution to construction and financed the remained through Tax Increment Bonds. The existing users share of interest cost on those bonds is \$729,435.

- The estimated cost of Eastside Trunk Sewer Phase 3, which runs from the intersection of Snyder and Southwest to the intersection of Snyder and Rohnert Park Expressway, is allocated to all new development in the Northeast and University District SPAs. These properties contribute flow to the Eastside Trunk Sewer Phase 3.
- The cost of the existing Interceptor Outfall Project Phase 1 and the estimated cost of the Interceptor Outfall Project Phase 2 are allocated to all development, new and existing including Canon Manor because all development contributes flow to these facilities.
- The City's share of the Subregional Systems costs is allocated to all development, new and
 existing including Canon Manor, because all development contributes flow to these facilities.
- The actual costs of Canon Manor Project Management are allocated to all existing and new
 development in the Canon Manor SPA, because all development in Canon Manor contributed to
 the need for the project and its attendant management costs.

Water System: The water system mitigation fee component funds improvements to the aqueduct turnout that serves west Rohnert Park and a new water main that improves pressures and fire flows for new
development on the eastside of Rohnert Park. The westside improvements are spread to all new
westside development based on population because the new development creates the need for the
improvements. The eastside transmission main is spread to all new development on the eastside of
Rohnert Park based on population, because the new development creates the need for increased fire
flow delivery and pressure.

Drainage: The drainage fee component funds detention basins in the Copeland Creek watershed and the "northeast" watershed, which includes Hinebaugh Creek and its tributaries. The detention basins are necessary to mitigate the impacts of additional impervious area created by new development. The Copeland Creek basin is spread to all land uses in the University District SPA, based on area, because it is the additional impervious area in the University District SPA that creates the need for this basin. While this basin only serves to mitigate impacts from the University District SPA, it may serve as part of a larger regional drainage and restoration project and hence is included in the PF Fee Program. The Northeast Basin is spread to all land uses in the Northeast, Northwest, and Wilfred Dowdell SPAs and the Stadium Lands PD based on area, because it is the additional impervious area created by these developments that creates the need for the basin.

ES.5 Summary of Base Mitigation Fee Burdens

Table ES-2, on the following pages presents the results of the PF Fee calculations for all components. The PF Fees presented include a 3% administration allowance. These fee burdens represent the "fair share" cost of planning, design and construction for the facilities included in this 2011 Update, in current dollars. Fee calculations have been prepared for infill development and each SPA or PD. For the SPAs and PDs, where the proposed development is well understood, the tables include a summary of the estimated fee burden for the whole SPA or PD.

Table ES-2 Summary of Pro	posed I	Public F	acility Fe	ee Componer	nts (1)							
							Traffic	Wes	stside		Ea	astside
Land Use Class	Training Facilities	City Hall	Corporation Yard Expansion	Median and Frontage Improvements	Drainage Master Plan	Water Master Plan	Roadways	Westside Safety Station	Westside Water Main Imps	Westside Utilities Dowdell	Southside Safety Station	Eastside Water Main Improvements
Single Family Residential (units)	\$256	\$376	\$393	\$2,695	\$11	\$9	\$2,380	\$1,083	\$95	\$969	\$711	\$449
Multi-Family Residential (units)	\$160	\$235	\$246	\$1,684	\$7	\$5	\$1,547	\$677	\$59	\$605	\$444	\$281
Senior Housing (units)	\$160	\$235	\$246	\$1,684	\$7	\$5	\$952	\$677	\$59	\$605	\$444	\$281
Assisted Living (units)	\$80	\$117	\$123	\$842	\$3	\$3	\$952	\$338	\$30	\$303	\$222	\$140
General Office (enclosed tsf)	\$229	\$336	\$351	\$2,408	\$10	\$8	\$4,046	\$968	\$85	\$866	\$636	\$402
Hotel/Motel (enclosed tsf)	\$84	\$123	\$129	\$884	\$4	\$3	\$4,284	\$355	\$31	\$318	\$233	\$147
Retail (enclosed tsf)	\$146	\$214	\$223	\$1,533	\$6	\$5	\$9,520	\$616	\$54	\$551	\$404	\$256
Light Industrial (enclosed tsf)	\$53	\$77	\$81	\$556	\$2	\$2	\$1,666	\$223	\$20	\$200	\$147	\$93
Heavy Industrial (enclosedtsf)	\$53	\$77	\$81	\$556	\$2	\$2	\$1,666	\$223	\$20	\$200	\$147	\$93
Warehouse (enclosed tsf)	\$53	\$77	\$81	\$556	\$2	\$2	\$1,161	\$223	\$20	\$200	\$147	\$93

Drainage

								·~9·				
	No	rtheast	_	iversity istrict	Southeast	Sono	ma Mountain Village	No	thwest	fred /dell	Stad Lar	lium nds
Single Family Residential (units)	\$	1,710	\$	2,096	\$ -	\$	-	\$		\$ -	\$	-
Multi-Family Residential (units)	\$	427	\$	518	\$ -	\$	1	\$	343	\$ -	\$	414
Non-Residential Land Use (disturbed tsf)			\$	259	\$ -	\$	-	\$	236	\$ 236	\$	236

Sewer not SMV

	rceptor outfall	E	STS 1	ı	ESTS 2	ESTS 2a		ESTS 3	Sul	oregional	Can	on Manor PM
Single Family Residential (units)	\$ 1,513	\$	3,809	\$	2,495	\$	648	\$ 1,154	\$	9,100	\$	1,979
Multi-Family Residential (units)	\$ 988	\$	2,487	\$	1,629	\$	423	\$ 753	\$	5,942	\$	1,292
Non-Residential Land Use (gallon)	\$ 9	\$	22	\$	15	\$	4	\$ 7	\$	54	\$	12

Sewer SMV

	rceptor utfall	E	STS 1	ESTS 2	ESTS 2a	ES	STS 3		Sub	regional
Single Family Residential (units)	\$ 1,208	\$	3,042	\$ 1,993	\$ 517	\$		Ŧ	\$	7,267
Multi-Family Residential (units)	\$ 789	\$	1,986	\$ 1,301	\$ 338	\$		-T	\$	4,745
Non-Residential Land Use (gallon)	\$ 9	\$	22	\$ 15	\$ 4	\$		Ŧ	\$	54

(1) Proposed PF Fees funds facilities historically funded in part by the sewer capacity charge program. Separate sewer capacity charges will no longer be collected upon approval of this fee schedule.

Table ES-2a Summary of Proposed Mitigation Fees Eastside Infill - 2011 PFFP

		Public	Public Facilities			Droinogo	3%	Total	Ni wahar of	SPA Fee
	Troffic Foo			Cawar Faa	Motor Foo	Drainage	3% Administrative		Number of	
	Traffic Fee	Safety Fee	Fee	Sewer Fee	Water Fee	Fee		Mitigation	Units in	per Land
	Component	Component	Component	Component	Component	Component	Allowance	Fee per Unit	SPA	Use
Land Use Class										
Single Family Residential (units)	\$ 2,380	\$ 967	\$ 3,483	\$ 10,613	\$ -	\$ -	\$ 523	\$ 17,967		\$ -
Multi-Family Residential (units)	\$ 1,547	\$ 605	\$ 2,177	\$ 6,930	\$ -	\$ -	\$ 338	\$ 11,596		\$ -
Senior Housing (units)	\$ 952	\$ 605	\$ 2,177	\$ 6,930	\$ -	\$ -	\$ 320	\$ 10,983		\$ -
Assisted Living (units)	\$ 952	\$ 302	\$ 1,088	\$ 6,930	\$ -	\$ -	\$ 278	\$ 9,551		\$ -
General Office (enclosed tsf)			\$ 3,113	see below	\$ -	\$ -				
Hotel/Motel (enclosed tsf)	\$ 4,284	\$ 317	\$ 1,143	see below	\$ -	\$ -				
Retail (enclosed tsf)	\$ 9,520	\$ 550	\$ 1,981	see below	\$ -	\$ -				
Light Industrial (enclosed tsf)		\$ 199	\$ 718	see below	\$ -	\$ -				
Heavy Industrial (enclosedtsf)	\$ 1,666	\$ 199	\$ 718	see below	\$ -	\$ -				
Warehouse (enclosed tsf)	\$ 1,161	\$ 199	\$ 718	see below	\$ -	\$ -				

Note: Sewer Component by gallon for nonresidential uses \$ 62.43 gallon (does not include administrative allowance)

Table ES-2b Summary of Proposed Mitigation Fees Westside Infill Projects 2011 PFFP

		Public	Public Facilities			Drainage	3%	Total	Number of	
	Traffic Fee	Safety Fee	Fee	Sewer Fee	Water Fee	Fee	Administrative		Units in	SPA Fee per
		Component			Component	Component	Allowance	Fee per Unit		Land Use
Land Has Class	Component	Component	Component	Component	Component	Component	Allowance	r ee per Onit	SEA	Land USE
Land Use Class										
Single Family Residential (units)	\$ 2,380	\$ 1,339	\$ 4,452	\$ 10,613	\$ 95	\$ -	\$ 566	\$ 19,445		\$ -
Multi-Family Residential (units)	\$ 1,547	\$ 837	\$ 2,782	\$ 6,930	\$ 59	\$ -	\$ 365	\$ 12,520		\$ -
Senior Housing (units)	\$ 952	\$ 837	\$ 2,782	\$ 6,930	\$ 59	\$ -	\$ 347	\$ 11,907		\$ -
Assisted Living (units)	\$ 952	\$ 418	\$ 1,391	\$ 6,930	\$ 30	\$ -	\$ 292	\$ 10,013		\$ -
General Office (enclosed tsf)	\$ 4,046	\$ 1,197	\$ 3,979	see below	\$ 85	\$ -	\$ 279			\$ -
Hotel/Motel (enclosed tsf)	\$ 4,284	\$ 439	\$ 1,461	see below	\$ 31	\$ -	\$ 186			\$ -
Retail (enclosed tsf)	\$ 9,520	\$ 761	\$ 2,532	see below	\$ 54	\$ -	\$ 386			\$ -
Light Industrial (enclosed tsf)	\$ 1,666	\$ 276	\$ 918	see below	\$ 20	\$ -	\$ 86			\$ -
Heavy Industrial (enclosedtsf)	\$ 1,666	\$ 276	\$ 918	see below	\$ 20	\$ -	\$ 86			\$ -
Warehouse (enclosed tsf)	\$ 1,161	\$ 276	\$ 918	see below	\$ 20	\$ -	\$ 71			\$ -

Note: Sewer Component by gallon for nonresidential uses

\$ 62.43 per gallon

(does not include administrative allowance)

Non-resential fee calculated by assuming flow rate of 40 gallons/1000 sqare feet

Actual non-residential fees paid will be determined based on propoposed use

Table ES-2c Summary of Proposed Mitigation Fees Northeast SPA 2011 PFFP

Total Fee Burden for SPA \$ 29,111,240

	Traffic Fee Component	Public Safety Fee		Sewer Fee Component	Water Fee	Drainage Fee Component	3% Administrative Allowance		Number of Units in SPA	SPA Fee per Land Use
Land Use Class		00	- Component	- Component	- Сотпрототк	- Сотпрототк	7 6 17 61.10 6	. се ре: с	0.71	
Single Family Residential (units)	\$ 2,380	\$ 967	\$ 3,483	\$ 18,071	\$ 449	\$ 1,710	\$ 812	\$ 27,873	920	\$ 25,643,160
Multi-Family Residential (units)	\$ 1,547	\$ 605	\$ 2,177	\$ 11,799	\$ 281	\$ 427	\$ 505	\$ 17,340	200	\$ 3,468,080
Senior Housing (units)	\$ 952	\$ 605	\$ 2,177	\$ 11,799	\$ 281	\$ -	\$ 474	\$ -		\$ -
Assisted Living (units)	\$ 952	\$ 302	\$ 1,088	\$ 11,799	\$ 140	\$ -	\$ 428	\$ -		\$ -
General Office (enclosed tsf)	\$ 4,046	\$ 864	\$ 3,113	\$ 4,252	\$ 402	\$ -	\$ 380	\$ -		\$ -
Hotel/Motel (enclosed tsf)	\$ 4,284	\$ 317	\$ 1,143	\$ 4,252	\$ 147	\$ -	\$ 304	\$ -		\$ -
Retail (enclosed tsf)	\$ 9,520	\$ 550	\$ 1,981	\$ 4,252	\$ 256	\$ -	\$ 497	\$ -		\$ -
Light Industrial (enclosed tsf)	\$ 1,666	\$ 199	\$ 718	\$ 4,252			\$ 208	\$ -		\$ -
Heavy Industrial (enclosedtsf)	\$ 1,666	\$ 199	\$ 718	\$ 4,252	\$ 93	\$ -	\$ 208	\$ -		\$ -
Warehouse (enclosed tsf)	\$ 1,161	\$ 199	\$ 718	\$ 4,252	\$ 93	\$ -	\$ 193	\$ -		\$ -

Note Sewer Component by gallon for nonresidential uses

\$ 106.30 gallon

(does not include administrative allowance)

Non-resential fee calculated by assuming flow rate of 40 gallons/1000 sqare feet

Actual non-residential fees paid will be determined based on propoposed use

Table ES-2d Summary of Proposed Mitigation Fees University District 2011 PFFP

Total Fee Burden for SPA

¢	11	464	11	13

			Public							
		Public	Facilities			Drainage	3%	Total		
	Traffic Fee	Safety Fee	Fee	Sewer Fee	Water Fee	Fee	Administrative	Mitigation	Number of	SPA Fee per
	Component	Component	Component	Component	Component	Component	Allowance	Fee per Unit	Units in SPA	Land Use
Land Use Class										
Single Family Residential (units)	\$ 2,380	\$ 967	\$ 3,483	\$ 18,071	\$ 449	\$ 2,096	\$ 823	\$ 28,270		\$ 24,962,410
Multi-Family Residential (units)	\$ 1,547	\$ 605	\$ 2,177	\$ 11,799	\$ 281	\$ 518	\$ 508	\$ 17,434	762	\$ 13,284,858
Senior Housing (units)		\$ 605	\$ 2,177	\$ 11,799	\$ 281	\$ 518	\$ 490		0	\$ -
Assisted Living (units)	\$ 952	\$ 302	\$ 1,088	\$ 11,799	\$ 140	\$ 518	\$ 444		0	\$ -
General Office (enclosed tsf)	\$ 4,046	\$ 864	\$ 3,113	\$ 4,252	\$ 402		\$ 380	\$ 13,057	0	\$ -
Hotel/Motel (enclosed tsf)	\$ 4,284	\$ 317	\$ 1,143	\$ 4,252	\$ 147		\$ 304	\$ 10,448	0	\$ -
Retail (enclosed tsf)	\$ 9,520	\$ 550	\$ 1,981	\$ 4,252	\$ 256		\$ 497	\$ 17,055	175	\$ 2,984,704
Light Industrial (enclosed tsf)	\$ 1,666	\$ 199	\$ 718	\$ 4,252	\$ 93		\$ 208	\$ 7,136	0	\$ -
Heavy Industrial (enclosedtsf)	\$ 1,666	\$ 199	\$ 718	\$ 4,252	\$ 93		\$ 208	\$ 7,136	0	\$ -
Warehouse (enclosed tsf)	\$ 1,161	\$ 199	\$ 718	\$ 4,252	\$ 93		\$ 193	\$ 6,617	0	\$ -
Nonresidential (distrubed tsf)						\$ 259	\$ 8	\$ 267	871	\$ 232,141

Note: Sewer Component by gallon for nonresidential uses

\$ 106.30 gallon

(does not include administrative allowance)

Non-resential fee calculated by assuming flow rate of 40 gallons/1000 sqare feet

Actual non-residential fees paid will be determined based on propoposed use

Table ES-2e Summary of Proposed Mitigation Fees Southeast SPA 2011 PFFP

Total Fee Burden for SPA \$ 11,593,153

		Dublic	Public Facilities			Droinere	20/	Total	Number of	
	- ··· -	Public				Drainage	3%		Number of	
	Traffic Fee	Safety Fee	Fee	Sewer Fee	Water Fee	Fee	Administrative	Mitigation	Units in	SPA Fee per
	Component	Component	Component	Component	Component	Component	Allowance	Fee per Unit	SPA	Land Use
Land Use Class										
Single Family Residential (units)	\$ 2,380	\$ 967	\$ 3,483	\$ 17,565	\$ 449	\$ -	\$ 745	\$ 25,590	394	\$ 10,082,425
Multi-Family Residential (units)	\$ 1,547	\$ 605	\$ 2,177	\$ 11,469	\$ 281	\$ -	\$ 482	\$ 16,560	81	\$ 1,341,400
Senior Housing (units)	\$ 952	\$ 605	\$ 2,177	\$ 11,469	\$ 281	\$ -	\$ 464	\$ 15,948	0	\$ -
Assisted Living (units)	\$ 952	\$ 302	\$ 1,088	\$ 11,469	\$ 140	\$ -	\$ 419	\$ 14,371	0	\$ -
General Office (enclosed tsf)	\$ 4,046	\$ 864	\$ 3,113	\$ 4,133	\$ 402	\$ -	\$ 377	\$ 12,935	0	\$ -
Hotel/Motel (enclosed tsf)	\$ 4,284	\$ 317	\$ 1,143	\$ 4,133	\$ 147	\$ -	\$ 301	\$ 10,325	0	\$ -
Retail (enclosed tsf)	\$ 9,520	\$ 550	\$ 1,981	\$ 4,133	\$ 256	\$ -	\$ 493	\$ 16,933	10	\$ 169,328
Light Industrial (enclosed tsf)	\$ 1,666	\$ 199	\$ 718	\$ 4,133	\$ 93	\$ -	\$ 204	\$ 7,014	0	\$ -
Heavy Industrial (enclosedtsf)	\$ 1,666	\$ 199	\$ 718	\$ 4,133	\$ 93	\$ -	\$ 204	\$ 7,014	0	\$ -
Warehouse (enclosed tsf)	\$ 1,161	\$ 199	\$ 718	\$ 4,133	\$ 93	\$ -	\$ 189	\$ 6,494	0	\$ -

Note Sewer Component by gallon for nonresidential uses

\$ 103.32 gallon

(does not include administrative allowance)

Non-resential fee calculated by assuming flow rate of 40 gallons/1000 sqare feet

Actual non-residential fees paid will be determined based on propoposed use

Table ES-2f Summary of Proposed Mitigation Fees Sonoma Mountain Village 2011 PFFP

Total Fee Burden for SPA \$ 35,097,676

	Traffic Fee Component	Public Safety Fee Component	Public Facilities Fee Component	Sewer Fee Component	Water Fee Component	Drainage Fee Component	3% Administrative Allowance	Total Mitigation Fee per Unit	Number of Units in SPA	SPA Fee per Land Use
Land Use Class										
Single Family Residential (units)	\$ 2,380	\$ 967	\$ 3,483	\$ 14,026	\$ 449	\$ -	\$ 639	\$ 21,945	700	\$ 15,361,640
Multi-Family Residential (units)	\$ 1,547	\$ 605	\$ 2,177	\$ 9,158	\$ 281	\$ -	\$ 413	\$ 14,181	994	\$ 14,095,623
Senior Housing (units)	\$ 952	\$ 605	\$ 2,177	\$ 9,158	\$ 281	\$ -	\$ 395	\$ 13,568	0	\$ -
Assisted Living (units)	\$ 952	\$ 302	\$ 1,088	\$ 9,158	\$ 140	\$ -	\$ 349	\$ 11,991	0	\$ -
General Office (enclosed tsf)	\$ 4,046	\$ 864	\$ 3,113	\$ 3,305	\$ 402	\$ -	\$ 352	\$ 12,082	426	\$ 5,146,815
Hotel/Motel (enclosed tsf)	\$ 4,284	\$ 317	\$ 1,143	\$ 3,305	\$ 147	\$ -	\$ 276	\$ 9,472	126	\$ 1,193,522
Retail (enclosed tsf)	\$ 9,520	\$ 550	\$ 1,981	\$ 3,305	\$ 256	\$ -	\$ 468	\$ 16,080	262	\$ 4,209,710
Light Industrial (enclosed tsf)	\$ 1,666	\$ 199	\$ 718	\$ 3,305	\$ 93	\$ -	\$ 179	\$ 6,161	0	\$ -
Heavy Industrial (enclosedtsf)	\$ 1,666	\$ 199	\$ 718	\$ 3,305	\$ 93	\$ -	\$ 179	\$ 6,161	0	\$ -
Warehouse (enclosed tsf)		\$ 199	\$ 718	\$ 3,305	\$ 93	\$ -	\$ 164	\$ 5,641	0	\$ -
Credit for existing development	\$ (1,666)	\$ (199)	\$ (718)	\$ (4,133)	\$ (93)	\$ -	\$ (204)	\$ (7,014)	700	\$ (4,909,634)

Note Sewer Component by gallon for nonresidential uses

\$ 103.28 gallon

(does not include administrative allowance)

Non-resential fee calculated by assuming flow rate of 40 gallons/1000 sqare feet

Actual non-residential fees paid will be determined based on propoposed use

Table ES-2g Summary of Proposed Mitigation Fees Northwest SPA - 2011 PFFP

Total Fee Burden for SPA \$ 25,801,443

	Traffic Fee Component	Public Safety Fee Component	Public Facilities Fee Component	Sewer Fee Component	Water Fee Component	Drainage Fee Component	3% Administrative Allowance	Total Mitigation Fee per Unit	Number of Units in SPA	SPA Fee per Land Use
Land Use Class										
Single Family Residential (units)	\$ 2,380	\$ 1,339	\$ 4,452	\$ 10,613	\$ 95	\$ 343	\$ 577	\$ 19,798	0	\$ -
Multi-Family Residential (units)	\$ 1,547	\$ 837	\$ 2,782	\$ 6,930	\$ 59	\$ 343	\$ 375	\$ 12,873	900	\$ 11,585,455
Senior Housing (units)	\$ 952	\$ 837	\$ 2,782	\$ 6,930	\$ 59	\$ 343	\$ 357	\$ 12,260	0	\$ -
Assisted Living (units)	\$ 952	\$ 418	\$ 1,391	\$ 6,930	\$ 30	\$ 343	\$ 302	\$ 10,366	0	\$ -
General Office (enclosed tsf)	\$ 4,046	\$ 1,197	\$ 3,979	\$ 2,497	\$ 85	\$ -	\$ 354	\$ 12,157	230	\$ 2,796,192
Hotel/Motel (enclosed tsf)	\$ 4,284	\$ 439	\$ 1,461	\$ 2,497	\$ 31	\$ -	\$ 261	\$ 8,974	0	\$ -
Retail (enclosed tsf)	\$ 9,520	\$ 761	\$ 2,532	\$ 2,497	\$ 54	\$ -	\$ 461	\$ 15,825	450	\$ 7,121,451
Light Industrial (enclosed tsf)	\$ 1,666	\$ 276	\$ 918	\$ 2,497	\$ 20	\$ -	\$ 161	\$ 5,538	520	\$ 2,879,954
Heavy Industrial (enclosedtsf)	\$ 1,666	\$ 276	\$ 918	\$ 2,497	\$ 20	\$ -	\$ 161	\$ 5,538	0	\$ -
Warehouse (enclosed tsf)	\$ 1,161	\$ 276	\$ 918	\$ 2,497	\$ 20	\$ -	\$ 146	\$ 5,019	0	\$ -
Nonresidential (distrubed tsf)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 236	\$ 7	\$ 243	5837	\$ 1,418,391

Note Sewer Component by gallon for nonresidential uses

62.43 gallon

(does not include administrative allowance)

Non-resential fee calculated by assuming flow rate of 40 gallons/1000 sqare feet

Actual non-residential fees paid will be determined based on propoposed use

Table ES-2h Summary of Proposed Mitigation Fees Wilfred Dowdell SPA 2011 PFFP

Total Fee Burden for SPA \$ 5,041,482

	Traffic Fee Component	Public Safety Fee Component		Sewer Fee Component	Water Fee Component	Drainage Fee Component	3% Administrative Allowance	Total Mitigation Fee per Unit	Number of Units in SPA	SPA Fee per Land Use
Land Use Class										
Single Family Residential (units)	\$ 2,380	\$ 1,339	\$ 4,452	\$ 10,613	\$ 95	\$ -	\$ 566	\$ -	0	\$ -
Multi-Family Residential (units)	\$ 1,547	\$ 837	\$ 2,782	\$ 6,930	\$ 59	\$ -	\$ 365	\$ -	0	\$ -
Senior Housing (units)	\$ 952	\$ 837	\$ 2,782	\$ 6,930	\$ 59	\$ -	\$ 347	\$ -	0	\$ -
Assisted Living (units)	\$ 952	\$ 418	\$ 1,391	\$ 6,930	\$ 30	\$ -	\$ 292	\$ -	0	\$ -
General Office (enclosed tsf)	\$ 4,046	\$ 1,197	\$ 3,979	\$ 2,497	\$ 85	\$ -	\$ 354	\$ 12,157	0	\$ -
Hotel/Motel (enclosed tsf)	\$ 4,284	\$ 439	\$ 1,461	\$ 2,497	\$ 31	\$ -	\$ 261	\$ 8,974	0	\$ -
Retail (enclosed tsf)	\$ 9,520	\$ 761	\$ 2,532	\$ 2,497	\$ 54	\$ -	\$ 461	\$ 15,825	302	\$ 4,779,285
Light Industrial (enclosed tsf)	\$ 1,666	\$ 276	\$ 918	\$ 2,497	\$ 20	\$ -	\$ 161	\$ 5,538	0	\$ -
Heavy Industrial (enclosedtsf)	\$ 1,666	\$ 276	\$ 918	\$ 2,497	\$ 20	\$ -	\$ 161	\$ 5,538	0	\$ -
Warehouse (enclosed tsf)	\$ 1,161	\$ 276	\$ 918	\$ 2,497	\$ 20	\$ -	\$ 146	\$ 5,019	0	\$ -
Nonresidential (distrubed tsf)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 236	\$ 7	\$ 243	1079	\$ 262,197

Note Sewer Component by gallon for nonresidential uses

62.43 gallon

(does not include administrative allowance)

Non-resential fee calculated by assuming flow rate of 40 gallons/1000 sqare feet

Actual non-residential fees paid will be determined based on propoposed use

Population-based water and storm drain master plan components are included in the Public Facilities Fee Component.

Table ES-2i Summary of Proposed Mitigation Fees Stadium Lands PD - 2011 PFFP

Total Fee Burden for SPA \$ 6,754,421

		Public	Public Facilitie					Drainage		3%	Total	Number of		
	Traffic Fee	Safety Fee			Sewer Fee	Wate	er Fee	Fee	Ad	Iministrative	Mitigation	Units in		PA Fee per
	Component	Component	Compone	nt C	Component	Com	ponent	Component	. /	Allowance	Fee per Unit	SPA	L	and Use
Land Use Class														
Single Family Residential (units)	\$ 2,380	\$ 1,339	\$ 4,4	2 \$	10,613	\$	95	\$ -	\$	566	\$ -	0	\$	-
Multi-Family Residential (units)	\$ 1,547	\$ 837	\$ 2,78	32 \$	6,930	\$	59	\$ 414	\$	377	\$ 12,946	338	\$	4,375,805
Senior Housing (units)	\$ 952	\$ 837	\$ 2,78	32 \$	6,930	\$	59	\$ 414	\$	359	\$ -	0	\$	-
Assisted Living (units)	\$ 952	\$ 418	\$ 1,39	1 \$	6,930	\$	30	\$ 414	\$	304	-	0	\$	-
General Office (enclosed tsf)	\$ 4,046	\$ 1,197	\$ 3,9	'9 \$	2,497	\$	85	\$ -	\$	354	\$ 12,157	0	\$	-
Hotel/Motel (enclosed tsf)	\$ 4,284	\$ 439	\$ 1,40	\$1 \$	2,497	\$	31	\$ -	\$	261	\$ 8,974	0	\$	-
Retail (enclosed tsf)	\$ 9,520	\$ 761	\$ 2,5	32 \$	2,497	\$	54	\$ -	\$	461	\$ 15,825	140	\$	2,215,562
Light Industrial (enclosed tsf)	\$ 1,666	\$ 276	\$ 9	8 \$	2,497	\$	20	\$ -	\$	161	\$ 5,538	0	\$	-
Heavy Industrial (enclosedtsf)	\$ 1,666	\$ 276	\$ 9	8 \$	2,497	\$	20	\$ -	\$	161	\$ 5,538	0	\$	-
Warehouse (enclosed tsf)		\$ 276	\$ 9	8 \$	2,497	\$	20	\$ -	\$	146	\$ 5,019	0	\$	-
Nonresidential (distrubed tsf)	\$ -	\$ -	\$ -	\$	· -	\$	-	\$ 236	\$	7	\$ 243	671	\$	163,053.00

^{*} note Sewer Component by gallon for nonresidential uses

Actual non-residential fees paid will be determined based on propoposed use

Population-based water and storm drain master plan components are included in the Public Facilities Fee Component.

^{62.43} gallon

⁽does not include administrative allowance)

^{*} Non-resential fee calculated by assuming flow rate of 40 gallons/1000 sqare feet

Table ES-2j Summary of Proposed Mitigation Fees Canon Manor SPA 2011 PFFP

Total Fee Burden for SPA \$ 986,386

	Traffic Fee Component	Public Safety Fee Component		Sewer Fee Component	Water Fee Component	Drainage Fee Component	3% Administrative Allowance		Number of Units in SPA	SPA Fee per Land Use
Land Use Class										
Single Family Residential (units)	\$ -	\$ -	\$ -	\$ 19,544	\$ -	\$ -	\$ 586	\$ 20,130	49	\$ 986,386
Multi-Family Residential (units)	\$ -	\$ -	\$ -	\$ 12,761	\$ -	\$ -	\$ 383	\$ 13,144	0	\$ -
Senior Housing (units)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0	\$ -
Assisted Living (units)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0	\$ -
General Office (enclosed tsf)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0	\$ -
Hotel/Motel (enclosed tsf)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0	\$ -
Retail (enclosed tsf)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0	\$ -
Light Industrial (enclosed tsf)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0	\$ -
Heavy Industrial (enclosedtsf)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0	\$ -
Warehouse (enclosed tsf)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	0	\$ -

Units in Canon Manor are remaining units that have not paid fees to the City

In some cases, the City may require certain backbone infrastructure to be constructed in advance of development so that the infrastructure can be available to serve development immediately. In these cases, the City is able to finance the construction through bond sales secured by either special assessments or special taxes levied on the developing property. In cases where infrastructure is financed through bonds, secured by assessment or special tax liens levied on property, the City will not collect mitigation fees from the same property owners for the same facilities.

The PF Fee Program is intended to function as a comprehensive program for funding all capital improvements included in the program. While the nexus findings contained in this 2011 Update have been developed for each proposed improvement individually, this 2011 Update recommends that the City continue its practice of collecting a single PF Fee. This single fee concept allows the City to use available cash flow to fund needed facilities without undue restrictions.

The PF Fees do not cover all water improvements necessary to serve new development. Additional water facilities are included in the City's Water Capacity Charge Programs.

ES.6 Approval Process and Annual Updates

The City Council approves all PF Fees. The Council renders its decision on the proposed fees after calling a Public Hearing and considering testimony and evidence presented at a Public Hearing. The Act allows agencies to update their mitigation fees and requires annual public accountings for the fees and their use. All annual reporting is made at a public meeting.

In a City with a large planned growth element, these annual findings are especially relevant. The fee calculations and revenue projections provided in this 2011 Update are based on planning projections for new development and budgetary estimates for the capital improvements. As capital improvement budgets are updated through the design and construction process and as land use projections are updated as development proceeds, it is very important to update the mitigation fees to reflect current costs and growth patterns in order to assure that the PF Fee program is generating enough revenue to fund the planned capital facilities.

ES.7 Bond Financing Districts

The City will approve development in accordance with its Growth Management Ordinance. This Ordinance has the effect of limiting the number of residential building permits that the City can issue, in order to maintain an average annual growth rate of approximately 1% per year. Hence, this Ordinance will limit the amount of PF Fee revenue that the City can collect in a single year, because PF Fees are collected at the time a building permit is issued by the City. In addition, some of the capital improvements included in the PF Fee Program need to be constructed prior to the occupancy of newly developed property. These conditions, combined with the market-driven nature of real estate development, means that the City may not be able to collect PF Fee revenue at the same rate that PF Fees program expenditures occur.

The 2011 Update includes provisions to fund all or a portion of the proposed mitigation fees, before the issuance of building permits, with assessment or special tax bonds in order to facilitate orderly construction of public facilities. Developers may reduce or completely pay-off their calculated PF Fee

burden by participating in a bond financing program. Development that occurs either before or after the bond financing takes place would continue to pay PF Fees in order to support their "fair share" of these capital improvements. Table ES-3 outlines the PF facilities that are needed early in the planned development program and are therefore logical to include in a bond financing program. The costs shown do not include the costs of bond issuance, which will be developed at the time of the bond sales. Because the costs of issuance benefit only the specific property that participates in the bond financing, these costs will not be included in future revisions of the PF Fees. Bond financing will likely occur serially, meaning that not all financed facilities will be constructed at once and the City may conduct multiple bond sales.

Table ES 3(a) – Potential Bond Financed Facilities – Eastside

Name						2011 All	oca	tions
Roadways & Bridges No. Name Roadways & Bridges S 994,500 S						New	ĺ	Existing
Name			201	1 Total Costs	1	Development	c	evelopment
Bodway Parkway: between Valley House and Railroad Environmental Mitigation S	Roadv	vays & Bridges						
Environmental Mitigation \$ 400,800 \$ 400,800 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,588,500 \$ 2,5	No.	Name						
Keiser Avenue: between Snyder Lane & Petaluma Hill Road S. 2,588,500 S. 2,588,500 S. 4,658,400 S. 6,658,400 S. 6,658,400 S. 7,658,400 S. 7,6	1	Bodway Parkway: between Valley House and Railroad	\$	994,500	\$	994,500	\$	-
Rohnert Park Expressway: between Syder Lane & Petaluma Hill road Support		Environmental Mitigation	\$	400,800	\$	400,800	\$	-
Environmental Mitigation Sinyder Lane: between G Section & north side of Creekside Middle School Sinyder Lane: between G Section & north side of Creekside Middle School Sinyder Creek Sinyder Sinyder Lane: between south side of Creekside Middle School and Medical Center Drive Sinyder Lane: between south side of Creekside Middle School and Medical Center Drive Sinyder Lane: between Medical Center Drive Sinyder Lane: between Medical Center Drive and Southwest Blvd Bridge @ Hinebaugh Creek Sinyder Sinyder Lane: between Medical Center Drive and Southwest Blvd Sinyder Lane: between Medical Center Drive and Southwest Blvd Sinyder Lane: between Medical Center Drive and Southwest Blvd Sinyder Lane: between Medical Center Drive and Southwest Blvd Sinyder Lane: between Medical Center Drive and Southwest Blvd Sinyder Lane: between Medical Center Drive and Southwest Blvd Sinyder Lane: between Sinyder Lane & Petaluma Hill Road Sinyder Lane: between Sinyder Lane & Petaluma Hill Road Sinyder Lane: between Sinyder Lane & Petaluma Hill Road Sinyder Lane: between Sinyder Lane & Petaluma Hill Road Sinyder Lane: between Sinyder Lane & Petaluma Hill Road Sinyder Lane: between Sinyder Lane & Petaluma Hill Road Sinyder Lane: between Sinyder Lane & Petaluma Hill Road Sinyder Lane: between Sinyder Lane & Petaluma Hill Road Sinyder Lane: between Sinyder Lane & Petaluma Hill Road Sinyder Lane: between Sinyder Lane & Petaluma Hill Road Sinyder Lane: between Sinyder Lane & Petaluma Hill Road Sinyder Lane: between Sinyder Lane: between Medical Center Drive and Southwest Blvd Sinyder Lane: between Sinyder Lane: between Medical Center Drive and Southwest Blvd Sinyder Lane: between Sinyder Lane: between Medical Center Drive and Southwest Blvd Sinyder Lane: between Sinyder Lane: between Medical Center Drive and Southwest Blvd Sinyder Lane: between Sinyder Lane: between Medical Center Drive and Southwest Blvd Sinyder Lane: between Sinyder Lane: between Medical Center Drive and Southw	6	Keiser Avenue: between Snyder Lane & Petaluma Hill Road	\$	2,588,500	\$	2,588,500	\$	-
Signature Sign	7	Rohnert Park Expressway: between Syder Lane & Petaluma Hill road	\$	4,658,400	\$	4,658,400	\$	-
Bridge @ Five Creek \$ 539,400 \$ 539,400 \$ - 171,100 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 117,200 \$ 11		Environmental Mitigation	\$	223,200	\$	223,200	\$	-
Bridge @ Crane Creek \$ 539,400 \$ 539,400 \$ 117,200	8	Snyder Lane: between G Section & north side of Creekside Middle School	\$	3,284,500	\$	2,810,300	\$	474,200
9		Bridge @ Five Creek	\$	539,400	\$	539,400	\$	-
Bridge @ Hinebaugh Creek \$ 539,400 \$ 539,400 \$ 309,800 \$ 7		Bridge @ Crane Creek	\$	539,400	\$	539,400	\$	-
Snyder Lane: between Medical Center Drive and Southwest Blvd Bridge @ Copeland Creek \$ 435,000 \$ 435,000 \$ 435,000 \$ -	9	Snyder Lane: between south side of Creekside Middle School and Medical Center Drive	\$	828,700	\$	711,500	\$	117,200
Bridge @ Copeland Creek \$ 435,000 \$ 435,000 \$ - 1		Bridge @ Hinebaugh Creek	\$	539,400	\$	539,400	\$	-
Traffic Control Devices & Intersection Improvements 6 Petaluma Hill Road @ Keiser Avenue	10	Snyder Lane: between Medical Center Drive and Southwest Blvd	\$	2,020,900	\$	1,711,100	\$	309,800
Fetaluma Hill Road @ Keiser Avenue		Bridge @ Copeland Creek	\$	435,000	\$	435,000	\$	-
Fetaluma Hill Road @ Keiser Avenue								
Petaluma Hill Road @ RPX \$ 263,336 \$ 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 5 263,336 \$ 263,336 \$ 263,336 \$ 263,336 \$ 263,336 \$ 263,336 \$ 263,336 \$ 263,336 \$ 263,336 \$ 263,336 \$ 263,336 \$ 263,336 \$ 263,336 \$ 263,336 \$ 263,336 \$ 263,336 \$ 263,336 \$ 263,336 \$ 263,336 \$ 263,336 \$ 263,336 \$ 263,336 \$ 263,366 \$ 263,366 \$ 263,366 \$ 263,366 \$ 263,366 \$ 263,366 \$ 263,366 \$ 263,366 \$ 263,366 \$ 263,366 \$ 263,366 \$ 263,366 \$ 263,366 \$ 263,366 \$ 263,366 \$ 263,366 \$ 263,366 \$ 263,366 \$ 263,366 \$		· ·			١.		١.	
Residence Resi		_					l .	-
13 Snyder Lane @ Keiser				•		,	l '	-
Single S		- ,					l .	-
Public Safety New Southside Station \$ 3,640,300 \$ 3,640,300 \$ - Public Facilities Median and Frontage Improvements Bodway Parkway: between Valley House and Railroad \$ 1,159,938 \$ 1,159,938 \$ 1,159,938 \$ 2,961,684 \$ 2,961,684 \$ 2,961,684 \$ 2,961,684 \$ 2,961,684 \$ 2,961,684 \$ 2,961,684 \$ 2,761,880 \$ 2,761,880 \$ 2,761,880 \$ 2,761,880 \$ 2,761,880 \$ 2,761,880 \$ 2,761,880 \$ 2,761,880 \$ 2,761,880 \$ 2,761,880 \$ 2,761,880 \$ 2,761,880 \$ 2,761,880 \$ 2,761,880 \$ 2,761,880 \$ 2,761,880 \$ 2,761,880 \$ 2,761,880 \$ 2,761,880 \$ 2,761,880 \$ 2,761,880 \$ 2,761,880 \$ 2,761,880 \$ 2,761,880 \$ 2,761,880 \$ 2,761,880 \$ 2,761,880 \$ 2,761,880 \$ 2,761,880 \$ 2,761,880 \$ 2,761,880 \$ 2,761,880 \$ 2,761,880 \$ 2,761,880 \$ 2,761,880 \$ 2,761,880 \$ 2,761,880 \$ 2,761,880 \$ 2,2761,880 \$ 2,2761,880 \$ 2,2761,880 \$ 2,2761,880 \$ 2,2761,880 \$ 2,2761,880 \$ 2,2761,880 \$ 2,2761,880 \$ 2,2761,880 <td></td> <td>• =</td> <td></td> <td>•</td> <td></td> <td>•</td> <td>l .</td> <td>-</td>		• =		•		•	l .	-
New Southside Station			\$	270,819	\$	270,819	\$	-
Public Facilities Median and Frontage Improvements Bodway Parkway: between Valley House and Railroad Keiser Avenue: between Snyder Lane & Petaluma Hill Road Rohnert Park Expressway: between Syder Lane & Petaluma Hill Road Snyder Lane: between G Section & north side of Creekside Middle School Snyder Lane: between south side of Creekside Middle School and Medical Center Drive Snyder Lane: between Medical Center Drive and Southwest Blvd Water System Improvements Eastside Transmission Main Storm Drainage Facilities - Proposed Additions Copeland Detention Basin (10 acres) Northeast Detention Basin (6.5 acres) Total Plan Sodway Parkway: between Valley House and Railroad \$ 1,159,938 \$ 1,159,938 \$ - \$ 2,961,684 \$ \$ 2,961,684 \$ \$ - \$ 2,961,684 \$ \$ 2,761,880 \$ - \$ 2,761,880 \$ \$ 2,761,880 \$ \$ - \$ 358,589 \$ \$ 358,589 \$ \$ - \$ 358,589 \$ \$ 358,589 \$ \$ - \$ 945,371 \$ \$ 945,371 \$ \$ - \$ 500 \$ \$ 2,299,700 \$ \$ 2,299,700 \$ \$ - \$ \$ 2,470,731 \$ \$ - \$ \$ 2,470,731 \$ \$ - \$ 3,897,600 \$ \$ 3,897,600 \$ \$ - \$ 501,200		•			,		,	
Median and Frontage Improvements Bodway Parkway: between Valley House and Railroad Keiser Avenue: between Snyder Lane & Petaluma Hill Road Rohnert Park Expressway: between Syder Lane & Petaluma Hill Road Snyder Lane: between G Section & north side of Creekside Middle School Snyder Lane: between South side of Creekside Middle School And Medical Center Drive Snyder Lane: between Medical Center Drive and Southwest Blvd Supplies Snyder Lane: between Medical Center Drive and Southwest Blvd Supplies Supplies South Snyder Lane: between Medical Center Drive and Southwest Blvd Supplies		New Southside Station	\$	3,640,300	,	3,640,300	\$	-
Bodway Parkway: between Valley House and Railroad \$ 1,159,938 \$ 1,159,938 \$ -	Public	Facilities						
Keiser Avenue: between Snyder Lane & Petaluma Hill Road Rohnert Park Expressway: between Syder Lane & Petaluma Hill Road Snyder Lane: between G Section & north side of Creekside Middle School Snyder Lane: between south side of Creekside Middle School and Medical Center Drive Snyder Lane: between south side of Creekside Middle School and Medical Center Drive Snyder Lane: between Medical Center Drive and Southwest Blvd Water System Improvements Eastside Transmission Main Storm Drainage Facilities - Proposed Additions Copeland Detention Basin (10 acres) Northeast Detention Basin (6.5 acres) Setting April 1 Setting 1 Se		Median and Frontage Improvements						
Rohnert Park Expressway: between Syder Lane & Petaluma Hill Road Snyder Lane: between G Section & north side of Creekside Middle School Snyder Lane: between south side of Creekside Middle School and Medical Center Drive Snyder Lane: between Medical Center Drive and Southwest Blvd Snyder Lane: between Medical Center Drive and Southwest Blvd Water System Improvements Eastside Transmission Main Storm Drainage Facilities - Proposed Additions Copeland Detention Basin (10 acres) Northeast Detention Basin (6.5 acres) Storm Drainage Facilities - Proposed Sacres Storm Drainage Facilities - Proposed Additions Storm Draina		Bodway Parkway: between Valley House and Railroad	\$	1,159,938	\$	1,159,938	\$	-
Snyder Lane: between G Section & north side of Creekside Middle School Snyder Lane: between south side of Creekside Middle School and Medical Center Drive Snyder Lane: between Medical Center Drive and Southwest Blvd Snyder Lane: between Medical Center Drive and Southwest Blvd Snyder Lane: between Medical Center Drive and Southwest Blvd Snyder Lane: between Medical Center Drive and Southwest Blvd Snyder Lane: between Medical Center Drive and Southwest Blvd Snyder Lane: between Medical Center Drive and Southwest Blvd Snyder Lane: between Medical Center Drive and Southwest Blvd Snyder Lane: between Medical Center Drive and Southwest Blvd Snyder Lane: between Medical Center Drive and Southwest Blvd Snyder Lane: between Medical Center Drive and Southwest Blvd Snyder Lane: between Medical Center Drive and Southwest Blvd Snyder Lane: between Medical Center Drive and Southwest Blvd Snyder Lane: between Medical Center Drive and Southwest Blvd Snyder Lane: between Medical Center Drive and Southwest Blvd Snyder Lane: between Medical Center Drive and Southwest Blvd Snyder Lane: between Medical Center Drive and Southwest Blvd Snyder Lane: between Medical Center Drive and Southwest Blvd Snyder Lane: between Medical Center Drive and Southwest Blvd Snyder Lane: between Medical Center Drive and Southwest Blvd Snyder Lane: between Medical Center Drive and Southwest Blvd Snyder Lane: between Medical Center Drive and Southwest Blvd Snyder Lane: between Medical Center Drive and Southwest Blvd Snyder Lane: between Medical Center Drive and Southwest Blvd Snyder Lane: between Medical Center Drive and Southwest Blvd Snyder Lane: between Medical Center Drive and Southwest Blvd Snyder Lane: between Medical Center Drive and Southwest Blvd Snyder Lane: between Medical Center Drive and Southwest Blvd Snyder Lane: between Medical Center Drive and Southwest Blvd Snyder Lane: between Medical Center Drive and Southwest Blvd Snyder Lane: between Medical Center Drive and Southwest Blvd Snyder Lane: between Medical Center Drive and Southwest Blvd		Keiser Avenue: between Snyder Lane & Petaluma Hill Road	\$	2,961,684	\$	2,961,684	\$	-
Snyder Lane: between south side of Creekside Middle School and Medical Center Drive Snyder Lane: between Medical Center Drive and Southwest Blvd \$ 945,371 \$ 945,371 \$ - \$ \$ \$ 945,371 \$ \$ - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		Rohnert Park Expressway: between Syder Lane & Petaluma Hill Road	\$	4,736,232	\$	4,736,232	\$	-
Snyder Lane: between Medical Center Drive and Southwest Blvd \$ 945,371 \$ 945,371 \$ -		Snyder Lane: between G Section & north side of Creekside Middle School	\$	2,761,880	\$	2,761,880	\$	-
Water System Improvements \$ 2,299,700 \$ 2,299,700 \$ - Eastside Transmission Main \$ 2,299,700 \$ 2,299,700 \$ - Storm Drainage Facilities - Proposed Additions \$ 2,470,731 \$ 2,470,731 \$ 2,470,731 \$ - Copeland Detention Basin (10 acres) \$ 3,897,600 \$ 3,897,600 \$ - Northeast Detention Basin (6.5 acres) \$ 46,180,601 \$ 45,279,401 \$ 901,200		Snyder Lane: between south side of Creekside Middle School and Medical Center Drive	\$	358,589	\$	358,589	\$	-
Eastside Transmission Main \$ 2,299,700 \$ 2,299,700 \$ -		Snyder Lane: between Medical Center Drive and Southwest Blvd	\$	945,371	\$	945,371	\$	-
Eastside Transmission Main \$ 2,299,700 \$ 2,299,700 \$ -	Motor	System Improvements						
Storm Drainage Facilities - Proposed Additions Copeland Detention Basin (10 acres) \$ 2,470,731 \$ 2,470,731 \$ - Northeast Detention Basin (6.5 acres) \$ 3,897,600 \$ 3,897,600 \$ - Total Plan \$ 46,180,601 \$ 45,279,401 \$ 901,200	I .	1 1	ċ	2 200 700	ہ	2 200 700	ب	
Copeland Detention Basin (10 acres) \$ 2,470,731 \$ 2,470,731 \$ -		Education Industrialismon Marin	Ş	2,299,700	۶	2,299,700	Ş	-
Copeland Detention Basin (10 acres) \$ 2,470,731 \$ 2,470,731 \$ -								
Northeast Detention Basin (6.5 acres) \$ 3,897,600 \$ 3,897,600 \$ - Total Plan \$ 46,180,601 \$ 45,279,401 \$ 901,200	Storm	Drainage Facilities - Proposed Additions						
Total Plan \$ 46,180,601 \$ 45,279,401 \$ 901,200		, ,			ı		l .	-
		Northeast Detention Basin (6.5 acres)	\$	3,897,600	\$	3,897,600	\$	-
	Total F	l Plan	\$	46,180.601	Ś	45,279.401	\$	901.200
			•	-,,	Ť	-,,	ŕ	,

Table ES 3(b) - Potential Bond Financed Facilities -Westside

					2011 All	ocat	ions
					New		Existing
		201	.1 Total Costs	0	Development	D	evelopment
Roadv	vays & Bridges						
No.	Name						
2	Dowdell Avenue: between 375' north & 750' south of Wilfred Avenue	\$	870,000	\$	870,000	\$	-
3	Dowdell Avenue: between 750' south of Wilfred Avenue and Business Park Drive	\$	845,600	\$	845,600	\$	-
	Bridge @ Business Park Drive	\$	870,000	\$	870,000	\$	-
11	Wilfred Avenue: between 1999 City Limits and Dowdell Avenue	\$	453,500	\$	453,500	\$	-
12	Wilfred Avenue: between Dowdell Avenue and UGB	\$	1,892,300	\$	1,892,300	\$	-
	Control Devices & Intersection Improvements						
	Redwood Drive @ Business Park Drive	\$	516,567		516,567	l '	-
11	Redwood Drive @ Wilfred	\$	1,068,099	\$	1,068,099	\$	-
Public	Safety					\$	-
	New Westside Station	\$	3,722,112	\$	1,795,002	\$	1,927,110
Modia	n and Frontage Improvements						
IVICUIO	Dowdell Avenue: between 375' north & 750' south of Wilfred Avenue	ζ	754,076	ς	754,076	ς	_
	Dowdell Avenue: between 750' south of Wilfred Avenue and Business Park Drive	'	837,863		837,863		_
	Wilfred Avenue: between 1999 City Limits and Dowdell Ave		508,706		508,706		_
	Wilfred Avenue: between Dowdell Ave and UGB		2,122,534		2,122,534	\$	_
	Willied Avenue. Between Bowden Ave and OGB	Y	2,122,334	٧	2,122,334	۲	
Total I	Non	¢	14 461 257	Ļ	12 524 247	ب	1 027 110
		\$	14,461,357	Ş	12,534,247	\$	1,927,110
ENK C	Cl (San Francisco, CA - September 2011) = 10192.79						

1 Authority, Methodology and Structure of the Plan

1.1 Authority

In California, an agency's ability to levy mitigation fees, also known as development impact fees, is governed by California Government Code Section 66000 et. seq. (the Mitigation Fee Act, hereinafter the Act). The Act requires a "nexus" or reasonable relationship between mitigation fees levied by an agency and infrastructure required to support development. New development can only be required to pay its share of the costs. The Act specifically states that mitigation fees may not be used for general revenue purposes. In addition, the Act requires regular accounting for expenditures from the mitigation fee funds, in part in order to assure that services and infrastructure keep pace with demand.

The City is proposing to change the facilities included in the PFFP and update the costs associated with those facilities, in part to allow for better alignment between the mitigation fee program and the mitigation measures outlined in project-specific EIRs. Because of these changes, the City must comply with the requirements for establishing mitigation fees. Specifically this 2011 Update:

- Identifies the purpose of the City's overall Public Facilities Fee Program and the purpose of each fee component;
- Identifies the uses of the fee;
- Establishes a reasonable relationship (or nexus) between the use of the fee and the type of development;
- Establishes a reasonable relationship (or nexus) between the need for capital improvements and the type of development;
- Establishes a reasonable relationship (or nexus) between the amount of the fee and the costs of the capital improvements attributable to the development on which the fee is imposed.

1.2 Methodology³

The methodology for calculating mitigation fees, including the methodology used to determine the cost of facilities included in the fee program, must meet the Act's test for reasonableness. Because of the unique circumstances of individual agencies, there are numerous methodologies for calculating mitigation fees but each is grounded in the basic principal of reasonable allocation of costs to benefitting entities. Several major publications regarding mitigation fees and charges for various infrastructure needs are recognized in the industry including:

Development Impact Fees, Arthur C. Nelson, 1998.

0205609003 October 2011

_

³ This discussion is sourced from <u>City of Santa Rosa Water and Wastewater Demand Fee Study</u> date March 6, 2007 (The Reed Group)

- Principles of Water Rates, Fees, and Charges, Manual M1, American Water Works Association,
 5th Edition, 2000.
- Comprehensive Guide to Water and Wastewater Finance and Pricing, Second Edition, George A.
 Raftelis, 1993.
- System Development Charges for Water, Wastewater, and Stormwater Facilities, Arthur C.
 Nelson, 1995.

These publications describe a number of methodologies but all the methodologies are grounded in two primary approaches – the incremental cost methodology and the system buy-in methodology. The two approaches are described below to illustrate the different perspectives. A method that combines both perspectives is also described.

1.2.1 Incremental Cost Method

The incremental cost methodology is commonly used for establishing fees in communities experiencing considerable new growth. The approach is based on the cost of new or planned capital facilities. The cost of growth-related facilities is allocated to the new development to be served by the facilities. Under this approach, new customers pay for the incremental investment necessary for system expansion. Consequently, new customers pay fully for additional capacity in new facilities to avoid imposing a burden on existing customers. For many of the facilities in the 2011 Update, this is an appropriate method for allocating costs.

1.2 2 System Buy-In Method

The system buy-in method is based on the average investment in the capital facilities by current customers. Raftelis describes the system buy-in methodology as follows: "Under this approach, capital recovery charges are based upon the 'buy-in' concept that existing users, through service charges, tax contributions, and other up-front charges, have developed a valuable public capital facility. The charge to users is designed to recognize the current value of providing the capacity necessary to serve additional users. The charge is computed by establishing fixed asset value under a historical or reproduction cost basis and deducting relevant liabilities (long-term debt, loans, etc.) from this amount. The number of units of service is then divided into this difference (considered to be the utility's equity) to establish the capital recovery charge."

More simply, the buy-in fee is determined by taking the current value of assets (historical cost escalated to current dollars and adjusted for depreciation) divided by the current number of customers (expressed in equivalent residential units). By paying fees calculated on this basis, new development buys into the existing capital facilities on par with existing development.

1.2.3 Combined Method - Future System Buy-in

This method combines both existing and planned facilities into fee calculations. This is because new development benefits from surplus capacity in existing facilities, but also requires new facilities to provide required capacity. The challenge in using a combined approach for fee calculation is to make certain that new development is not paying for needed capacity in both existing and new facilities. For example, in Rohnert Park, it is not appropriate to require new development to "buy into" the existing sewer collection system. There is not capacity in that collection system and new development is required to construct the Eastside Trunk Sewer and the westside backbone utilities in order to create this capacity. However, it is appropriate for new development to support a share of the Interceptor Outfall Project because it is sized to accommodate the wastewater generated at General Plan buildout.

One approach that combines both existing and new facilities is the future system buy-in methodology, which is similar to the system buy-in method described previously, except that it views and assesses the system at some point in the future. Where the typical system buy-in approach divides the existing system value by the current number of units of development, the future buy-in approach considers what the system will be like at some future planning horizon and divides this by the total number of units of development to be served at that point in time.

1.2.4 Methodology Used

In this 2011 Update, the Incremental Cost Method is commonly used and is applied to allocate costs for all roadways, environmental mitigation, bridges, traffic signals and intersection improvements, the Southside Public Safety Station, Median and Frontage Improvements, Eastside Trunk Sewer Phases 2, 2a and 3, and water system and drainage improvements.

The System Buy-in Method is used to allocate costs for Phase 1 of the Interceptor Outfall Project, Phase 1 of the Eastside Trunk Sewer Project, City Hall and Canon Manor project management. These facilities are all constructed but have been designed with capacity to serve the new development.

The Future System Buy-in Method is used to allocate costs for the Westside Public Safety Station, the Public Safety Training Facilities, the Corporation Yard Expansion and the Subregional System facilities. These facilities will be constructed to provide service for new and existing development at some point in the future.

1.3 Structure of the Plan

This chapter presented the authority under which the City develops, adopts, and updates its PF Fee Program as well as discussion of the fee calculation methodology that will be applied.

Chapter 2 presents an overview of the land use and cost estimating assumptions that are used throughout this 2011 Update.

Chapters 3 through 7 present descriptions, cost estimates and fee calculations for each component of the City's PF Fee Program. These chapters also present the nexus findings, required by the Act, for each component part of the City's PF Fee Program.

Chapter 8 provides some initial guidance on financing facilities in the PFFP in order to have capacity available in time for new development.

2 Land Uses & Basis of Cost Estimates

2.1 Introduction

This chapter outlines the existing and proposed, residential and nonresidential land uses within the City and its sphere of influence. The land use classes are used to model the impacts created by new and existing development in order to provide for fair allocation of costs. Land use information is current through mid-2011 and was updated from the 2006 PFFP based upon:

City of Rohnert Park Building Permit Records through September 2011

City of Rohnert Park Log of General Plan Amendments through August 2011

City of Rohnert Park Comparison of Specific Plans and Planned Developments as of April 22, 2009

Specific Plan, Draft and/or Final Environmental Impact Reports for:

Northeast Specific Plan Area (May 2008)

Northwest Specific Plan Area (May 2008 partial plan)

Southeast Specific Plan Area (July 2009)

University District Specific Plan Area (May 2006)

Wilfred Dowdell Specific Plan Area (September 2008)

Stadium Land Planned Development (February 2008)

Stadium Area Planned Development Zoning District (February 2005)

Sonoma Mountain Village Planned Development (August 2009)

Developer representatives, personal communications

City of Rohnert Park Planning Department personal communication

2.2 Existing and Proposed Land Uses

The City's General Plan identified six major SPAs:

Northeast SPA Canon Manor SPA

University District SPA Wilfred Dowdell SPA

Southeast SPA Northwest SPA

The City's General Plan anticipated annexation and development of all of the SPAs except Canon Manor. To date the University District and Wilfred Dowdell SPAs have been approved and annexed and the Northeast and Southeast SPAs are moving through the development approval process. Since the adoption of the General Plan in 2000, a casino has been proposed just inside the City's sphere of influence in the Northwest SPA; however, this proposed land use is not in the General Plan, is still under review and remains uncertain. Therefore, Northwest SPA land uses are modeled as proposed by the

General Plan. As information becomes available regarding the proposed casino, the PFFP should be updated to take into account that land use and its impacts.

Because the City provides sewer service to the Canon Manor SPA, which is outside the City boundaries, the 220 single family residences, which can be developed in Canon Manor, are included in the fee calculations for sewer system improvements. Canon Manor land uses are not included in the modeling for other types of facilities because the City does not provide other services in Canon Manor.

This 2011 Update also takes into account two major infill development projects: the Stadium Lands PD and the Sonoma Mountain Village PD. The City has approved Specific Plans and Environmental Documents for each of these planned developments. Each of these planned developments includes enough specificity to allow for the calculation of the mitigation fee burden associated with the proposed land uses. The Stadium Lands PD includes new residential and retail land uses on property that had previously been zoned for municipal purposes. The Sonoma Mountain Village PD includes new residential and retail land uses on property that had previously been zoned for industrial purposes. As a result of these changes, this 2011 Update includes more residential and retail land use and less industrial land use than the 2006 PFFP Update and the General Plan. Appendix A provides an update of the land uses by the traffic area zones that were established by the General Plan. This table, which was used to develop the General Plan, has been updated with each version of the PFFP in order to provide clear tracking of the changes in land use.

Figure 2-1 illustrates the various planning areas included in this 2011 Update. Table 2-1 outlines the various land uses used in the PFFP model, with breakdowns for each SPA or major development area. Of particular note in Table 2-1 is the reduction in square footage in light industrial land use between the current baseline and planned buildout. This is a result of land use conversions within the Sonoma Mountain Village PD where light industrial buildings are planned to be converted to mixed use and commercial development. As a result of these planned conversions, the future land use pattern cannot be modeled by simply adding planned development to existing development.

Table 2-2 provides a comparative summary of the base land uses and planned build-out land uses that have been included in the 2004, 2006 and 2011 versions of the PFFP.

Table 2-1 - Summary Land Use Breakdowns

						S	pecific Plan	Area			
										Sonoma	
		Planned	New						Stadium	Mountain	Canon
Land Use Class	2011 Base	Buildout	Development	NE SPA	UD SPA	SE SPA	WD SPA	NW SPA	Lands	Village	Manor
Residential											
Single Family Residential (units)	7,719	10,665	2,946	920	883	394	0	0	0	700	49
Multi-Family Residential (units)	8,594	12,109	3,465	200	762	81	0	900	338	994	0
Senior Housing (units)	207	209	2	0	0	0	0	0	0	0	0
Assisted Living (units)	0	135	135	0	0	0	0	0	0	0	0
Non-Residential											
General Office (square feet)	1,028,506	1,765,355	736,849	0	0	0	0	230,000	0	426,000	0
Hotel/Motel (square feet)	519,483	645,483	126,000	0	0	0	0	0	0	126,000	0
Retail (square feet)	2,030,210	3,619,503	1,492,488	0	175,000	10,000	302,114	450,000	140,000	261,801	0
Light Industrial (square feet)*	1,638,472	1,492,923	589,451	0	0	0	0	520,000	0	0	0
Heavy Industrial (square feet)		0	0	0	0	0	0	0	0	0	0
Warehouse (square feet)	1,589,632	1,589,632	0	0	0	0	0	0	0	0	0
Total Non Residential (square feet)	6,806,303	9,112,896	2,944,788	0	175,000	10,000	302,114	1,200,000	140,000	813,801	0

^{*} Reduction in Light Industrial square footage is a result of land use conversions within the Sonoma Mountain Village Development Area

Table 2-2 - Comparative Land Use Totals in PFFP Updates

Land Use Class		Base		PI	anned Buildo	out
	2004	2006	2011*	2004	2006	2011
Single Family Residential (units)	7,764	7,764	7,719	9,720	9,977	10,665
Multi-Family Residential (units)	8,213	8,574	8,594	10.974	10,971	12,109
Senior Housing (units)	207	207	207	268	209	209
Assisted Living (units)	0	0	0	135	135	135
General Office (square feet)	1,017,615	1,017,615	1,028,506	1,518,737	1,339,357	1,765,355
Hotel Motel (square feet)	457,603	457,603	519,438	581,399	521,399	645,438
Retail (square feet)	1,965,662	2,004,106	2,030,210	3,293,828	3,328,713	3,619,503
Light Industrial (square feet)	1,638,472	1,638,472	1,638,472	2,962,629	2,948,029	1,492,923
Heavy Industrial (square feet)	0	0	0	0	0	0
Warehouse (square feet)	1,489,632	1,589,632	1,589,632	1,560,644	1,589,632	1,589,632

^{*}Single family units in the unincorporated Northeast and Northwest SPAs have been removed from the calculations because they are not existing customers of the City and will be replaced as these SPAs develop.

2.3 Growth Management and Absorption Rates

The City has an adopted Growth Management Ordinance ⁴ that is intended to provide for orderly build out of residential development over the 20-year planning horizon contemplated by the General Plan. In its simplest form, the Growth Management Ordinance has the effect of limiting the number of residential building permits issued to 225 per year. There are exceptions for affordable housing and provisions to carry over building permits (i.e., if 50 are issued in one year, 400 may be issued the following year, providing a 2-year average of 225 per year). Because the Growth Management Ordinance clearly sets forth the residential development pattern, this 2011 Update does not include an analysis of probable development patterns.

2.4 Basis of Cost Estimates

Capital facility needs and costs were gathered from a range of sources including:

- City Rohnert Park General Plan
- Draft and/or Final Environmental Impact Reports (EIRs) for:
- Northeast Specific Plan Area (May 2008)
 Wilfred Dowdell Specific Plan Area (September 2008)
- Southeast Specific Plan Area (July 2009)
 Stadium Land Planned Development (February 2008)
- University District Specific Plan Area (May
 Sonoma Mountain Village Planned
 Development (August 2009)
- City of Rohnert Park Traffic Operations Consistency Study (November 2008)
- City of Rohnert Park Review of Traffic Capacity Needs Study for Two Future Road Projects (March 2010)
- City of Rohnert Park, Storm Drainage Plan
- LCA Architects, Conceptual Public Safety Station Plans (2010);
- City of Rohnert Park Engineering Department, personal communication;
- City of Rohnert Park Public Safety Department, personal communication;
- Cost Estimating Information provided by Brookfield Homes (various dates);
- City of Rohnert Park's Sewer Model Studies completed in 2004 and 2005;
- Actual construction costs and financing documents for the City of Rohnert Park's Eastside Trunk
 Sewer Phase 1;

⁴ Chapter 17.66 of the Rohnert Park Municipal Code.

- Estimated construction costs for the City of Rohnert Park's Eastside Trunk Sewer Phase 2 based on 90 % design documents;
- Actual construction costs and financing documents for the City of Rohnert Park's Interceptor Outfall Project Phase 1;
- Estimated construction costs for the City of Rohnert Park's Interceptor Outfall Project Phase 2 based on the conceptual design report;
- Present worth value of existing Subregional System facilities as presented in the <u>City of Santa</u> <u>Rosa Water and Wastewater Demand Fee Study</u> dated March 6, 2007;
- Estimated construction costs, including financing costs for the Subregional System's planned facilities based on the IRWP Master Plan as presented in the <u>City of Santa Rosa Water and</u> <u>Wastewater Demand Fee Study</u> dated March 6, 2007; and
- Five-year financing plan and rate plan as presented in <u>City of Rohnert Park Sewer Financial Plan</u> and Rate Plan dated March 3, 2011.⁵

With the exception of City Hall, the Sewer Interceptor Outfall Project Phase 1 and the Eastside Trunk Sewer Project Phase 1, which are constructed, and the Eastside Trunk Sewer Phase 2, which is in the detailed design phase, the facilities in this 2011 Update are primarily in the planning stages. Cost estimates have been developed by reviewing the proposed design criteria, reviewing available local construction cost information for similar facilities, and utilizing standard estimating guidance such as the RS Means Construction Cost Data. As with the original PFFP, most cost estimates are Class 5 (planning-level) estimates of probable construction cost as defined by the Association for the Advancement of Cost Engineering, International (AACE) as follows:

Generally prepared on very limited information, where little more than proposed plan type, its location, and the capacity are known, and for strategic planning purposes such as but not limited to market studies, assessment of viability, evaluation of alternate schemes, project screening, location and evaluation of resource needs and budgeting, long-range capital planning, etc. Some examples of estimating methods used would include cost/capacity curves and factors, scale-up factors, and parametric and modeling techniques.

The cost estimates for Eastside Trunk Sewer Phases 2 and 2a are based on detailed site surveys, geotechnical reports and 90% design documents. The cost estimate for Eastside Trunk Sewer Phase 3 is based on 60% design documents. These cost estimates can generally be classified as Class 3 cost

0205609003 October 2011

_

⁵ While this 2011 Update and the Financial Plan and Rate Plan have identical assumptions, the Financial Plan and Rate Plan refers to both the PF Fees and Sewer Capacity Charges. This 2011 Update combines the two programs into a single PF Fee to enhance clarity around the program(s) and fund administration. However, this 2011 Update includes the same sewer infrastructure that is currently split between the PF Fee Program and the Sewer Capacity Charge Program.

estimates and expected accuracy ranges from -10% to -20% on the low side and +10% to +30% on the high side.

These costs are indexed to the Engineering News Record Construction Cost Index (ENR CCI) for the San Francisco Bay Area for September which is 10192.79.

2.5 Land Acquisition, Rights-of-Way and Environmental Mitigation Costs

In general, the PF program assumes that rights-of-way will be dedicated in accordance with the City's General Plan Policy. This 2011 Update includes right-of-way acquisition costs for City Hall, the corporation yard expansion, the Sewer Interceptor Outfall Project Phase 1, the Eastside Trunk Sewer Phase 1, right-of-way purchased or budgeted for by the Santa Rosa Subregional System, right-of-way for the proposed stormwater detention basins and right-of-way for a portion of Dowdell Avenue extension, where there is developed property on either side and no project proponents to dedicate land.

In general, the PF program assumes that environmental mitigation costs for wetlands and other sensitive habitats, which occur in the undeveloped SPAs and PDs will be covered by the specific overall environmental mitigation program for the particular SPA or PD. The exceptions are Bodway Parkway extension (which runs outside the limits of any SPA or PD), a portion of Dowdell Avenue extension where there are no project proponents, and the portion of Rohnert Park Expressway that fronts Sonoma State University. The PF program includes costs for environmental mitigation in these three areas. Table 2-3 summarizes the assumptions about right-of-way needs and acquisition strategies used in this 2011 Update.

Table 2-3 –Environmental Mitigation & Right-of-Way Acquisition Assumptions

	Proposed	Existing	New ROW	Additional	PFFP	PFFP
	ROW	ROW	Required	Dedication	Funded	Funded
				Required	ROW	Mitigation
Roadways						
Segment 1 Bodway Parkway	56′	56'	0′	NA	No	Yes
Segment 2 Dowdell Avenue	84'	50'	34'	Yes	No	No
Segment 3 Dowdell Avenue	84'	50'	34'	Yes	No	No
Segment 4 Dowdell Avenue	68'	0'	68'	Yes	Yes	Yes
Segment 5 Dowdell Avenue	68'	68'	0'	NA	No	No
Segment 6 Keiser Avenue	56'	40'	16′	Yes	No	No
Segment 7 Rohnert Park Expressway	104′	+/- 70'	34'	Yes	No	Portion
Segment 8 Snyder Lane	104′	90'	14'	Yes	No	No
Segment 9 Snyder Lane	+/- 70'	+/- 70'	0′	NA	No	No
Segment 10 Snyder Lane	+/- 70'	+/- 70'	0′	NA	No	No
Segment 11 Wilfred Avenue	104′	+/- 40'	64'	Yes	No	No
Segment 12 Wilfred Avenue	104'	+/- 40'	64'	Yes	No	No
Public Safety						
Southside Station*	1.28 ac	0 ac	1.28 ac	Yes	No	No
Westside Station**	1.28 ac	1.12 ac	0 ac	No	No	No
Training Facilities**	1.72 ac	1.72 ac	0 ac	No	No	No
Public Facilities						
City Hall	0.5 ac	0.5 ac	0 ac	No	Yes	No
Corporation Yard	0.5 ac	0 ac	0.5 ac	No	Yes	No
Sewer Facilities						
Sewer Interceptor Outfall 1			Yes	No	In costs	In costs
Sewer Interceptor Outfall 2			No	No	NA	In costs
Eastside Trunk 1			Yes	No	In costs	In costs
Eastside Trunk 2 & 3			No	No	NA	In costs
Santa Rosa Subregional Imps			Yes	No	In costs	In costs
Water Facilities						
Water Transmission Main			No	No	NA	NA
Drainage Facilities***						
Copeland Creek Basin	10 ac	0 ac	10 ac	No	Yes	No
Northeast Basin	6.5 ac	0 ac	6.5 ac	No	Yes	No

^{*}Sonoma Mountain Village has been conditioned to dedicate the site for the Southside Station

^{**}Stadium Lands PD has dedicated three acres for the development of the Westside Public Safety Facilities

^{***}Assumes Drainage Facilities are designed to be self mitigating. Copeland Creek Basin right-ofway has been dedicated at a cost of \$1.00 per acre

3 Roadway Facilities

3.1 Introduction

This chapter and the accompanying Appendix B provide narrative description, graphical representation and cost estimates for the proposed roadway improvements as they are currently understood. Because some of the proposed facilities are still the subject of review under CEQA, the descriptions and illustrations included in this 2011 Update are intended to present the basis of the cost estimates, not to commit the City to a particular construction strategy.

3.2 Roadway Facilities Description

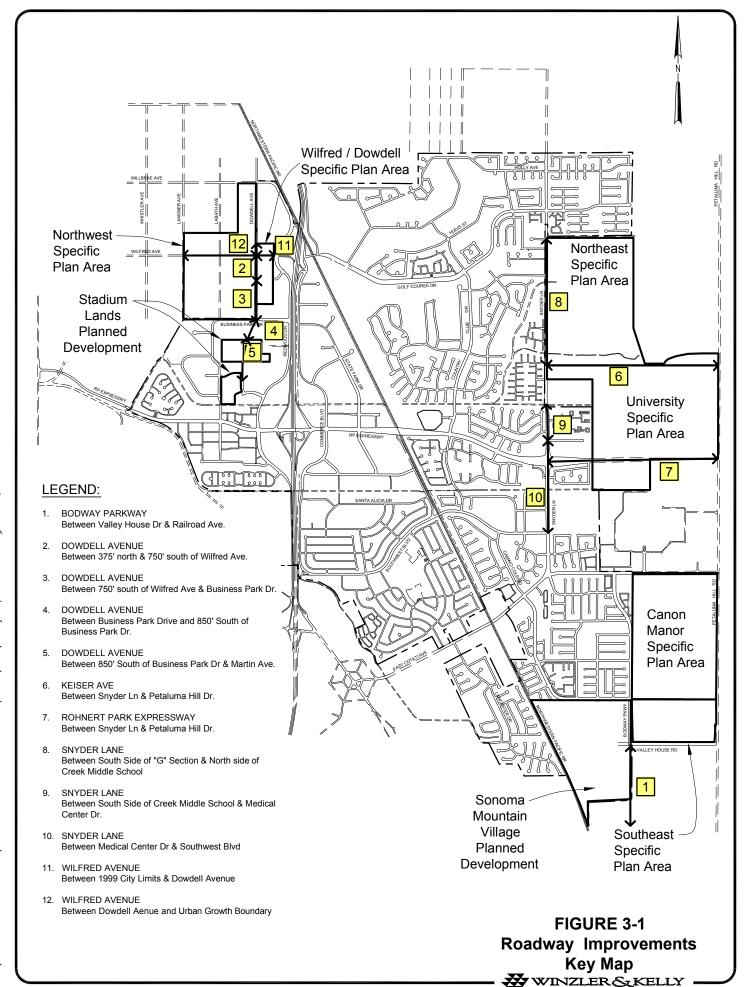
Roadway improvements include new and widened roadways, right-of-way and environmental mitigation associated with these roadways, modified intersections including traffic signals, and bridge widenings all located on the City's arterial/collector network. These improvements have all been identified in the City's General Plan or project-specific EIRs as necessary to mitigate the impacts of development. The planned roadway improvements include intersection and traffic signal improvements necessary to maintain levels of service consistent with the City's General Plan. Bridges are widened as necessary to accommodate warranted roadway widening. Bicycle lanes are included consistent with General Plan recommendations and City standards.

As part of the 2011 Update, the City commissioned a traffic capacity needs analysis and determined that improvements to Commerce Boulevard, Golf Course Drive and Seed Farm Drive, which were included in the 2006 Update, were not necessary to mitigate the impacts of development. However, a new signal at the intersection of Commerce Boulevard and Southwest Boulevard was necessary to serve development. Based on this additional technical study, the 2011 Update does not include widenings of Commerce Boulevard, Golf Course Drive and the extension of Seed Farm Drive. Intersection modifications at Commerce and Avram, Commerce and Alison, Seed Farm and Rohnert Park Expressway and Seed Farm and Enterprise, which were necessitated by the widenings and extension, have also been removed. The recommended new signal at Commerce and Southwest Boulevard has been added to the 2011 Update consistent with the additional traffic study. This study is included as Appendix C.

As part of the development review process, the City commissioned a Traffic Operations Consistency Study which studied the need for signal and intersection improvements. This study concluded that three proposed signals along Bodway Parkway and proposed signals at Dowdell and Wilfred, Eleanor and Rohnert Park Expressway, Labath and Wilfred, Petaluma Hill Road and East Cotati, and Snyder Lane at Eleanor, all of which were included in the 2006 Update, were not necessary to mitigate cumulative development impacts. These signals have been removed from the 2011 Update. However, this study did recommend a number of new signal and intersection improvements. These have been added to this 2011 Update because they are consistent with the required mitigation measures included in the CEQA documents for the various development projects. Not all signals included in the Traffic Operations Consistency Study are included in the PF Program. Signals that provide regional benefit (e.g., signals in the community of Penngrove) and signals and intersection modifications that serve a single development are not included in the PF Program. To date, the City has secured regional transportation

fee contributions through Development Agreements with individual project proponents. This contribution allows individual project proponents to mitigate their "fair share" of regional facilities.

Figure 3-1 illustrates the location of the roadways and bridge widenings included in this 2011 Update. Figure 3-2 illustrates the location of the traffic signal and intersection modifications. Descriptions of the improvements are provided below and Appendix B includes illustrations of the various roadway cross sections and intersection improvements and cost estimates for each. Table 3-1, provides a summary cost estimate of the proposed roadway improvements. Table 3-2 provides a listing of signals and intersection improvements included in the Traffic Operations Study but not included in the PF Program.



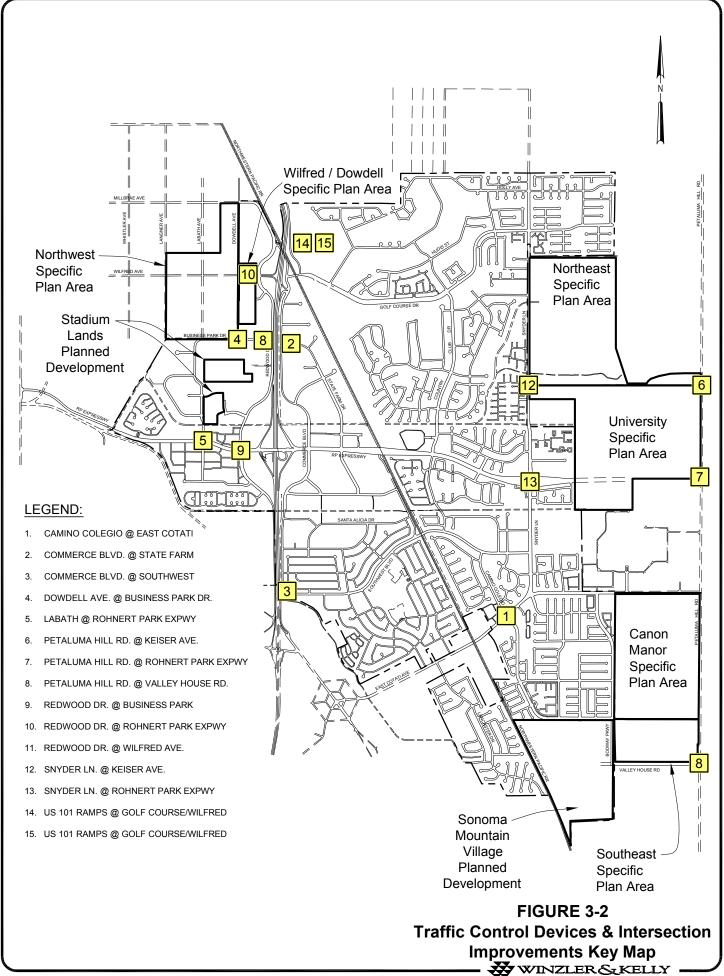


Table 3-1 - Roadway Improvements and Costs (ENR CCI = 10192.79)

					New		Existing
Roadw	avs	201	1 Total Costs	l D	evelopment	De	evelopment
	Name		.1 10101 00010	-	cvciopinicine		.veiopilient
-	Bodway Parkway: between Valley House and Railroad	\$	994,500	Ś	994,500	ς	_
	Dowdell Avenue: between 375' north & 750' south of Wilfred Avenue	\$	870,000	\$	870,000		_
	Dowdell Avenue: between 750' south of Wilfred Avenue and Business Park Drive	\$	845,600	\$	845,600		_
	Dowdell Avenue: between Business Park Drive and 850' south of Business Park Drive	\$	465,000	\$	465,000		_
	Dowdell Avenue: between 850' south of Business Park Drive and Martin Avenue	\$	588,100	۶ \$	588,100	Ų	-
	Keiser Avenue: between Snyder Lane & Petaluma Hill Road	\$	2,588,500	۶ \$	2,588,500	\$	
	Rohnert Park Expressway: between Snyder Lane & Petaluma Hill Road	\$ \$	4,658,400	\$ \$	4,658,400		-
	Snyder Lane: between G Section & north side of Creekside Middle School	\$	3,284,500	۶ \$	2,810,300		474,200
	Snyder Lane: between 6 Section & north side of Creekside Middle School and Medical Center Drive		828,700	\$ \$	711,500		117,200
	,	\$		\$ \$			
	Snyder Lane: between Medical Center Drive and Southwest Blvd	\$			1,711,100		309,800
	Wilfred Avenue: between 1999 City Limits and Dowdell Avenue	\$	453,500	\$	453,500		-
12	Wilfred Avenue: between Dowdell Avenue and UGB	\$		\$	1,892,300		001 200
	Total Roadways	\$	19,490,000	\$	18,588,800	\$	901,200
_	ion & Right of Way						
	Bodway Parkway: between Valley House and Railroad	\$	400,800		400,800	Ş	-
	Dowdell Avenue: between Business Park Drive and 850' south of Business Park Drive	\$	738,150		738,150		
7	Rohnert Park Expressway: between Snyder Lane & Petaluma Hill Road	\$	223,200	\$	223,200		-
	Total Mitigation	\$	1,362,150	\$	1,362,150	\$	-
Bridges		١.					
	Bridge @ Business Park Drive	\$	870,000		870,000		-
	Bridge @ Five Creek	\$	539,400	\$	539,400		-
	Bridge @ Crane Creek	\$	539,400	\$	539,400		-
	Bridge @ Hinebaugh Creek	\$	539,400	\$	539,400		-
	Bridge @ Copeland Creek	\$	435,000	\$	435,000		-
	Total Bridges	\$	2,923,200	\$	2,923,200	\$	-
	Control Devices & Intersection Improvements						
	Camino Colegio @ East Cotati	\$	7,480		7,480		-
	Commerce Blvd @ State Farm Drive	\$	516,567	\$	516,567		-
	Commerce @ Southwest	\$	521,839	\$	521,839	\$	-
4	Dowdell Avenue @ Business Park Drive	\$	905,967		905,967	\$	-
5	Labath @ Rohnert Park Expressway	\$	203,832		203,832	\$	-
6	Petaluma Hill Road @ Keiser Avenue	\$	1,290,859	\$	1,290,859	\$	-
	Petaluma Hill Road @ RPX	\$	263,336	\$	263,336		-
8	Petaluma Hill Road @ Valley House	\$	1,290,859	\$	1,290,859	\$	-
9	Redwood Drive @ Business Park Drive	\$	516,567	\$	516,567	\$	-
10	Redwood Drive @ Rohnert Park Expressway	\$	199,212	\$	199,212	\$	-
11	Redwood Drive @ Wilfred	\$	1,068,099	\$	1,068,099	\$	-
12	Snyder Lane @ Keiser	\$	780,003	\$	780,003	\$	-
13	Snyder Lane @ RPX	\$	270,819	\$	270,819	\$	-
14	US 101 NB Ramps @ Golf Course/Commerce	\$	166,218	\$	166,218	\$	-
15	US 101 SB Ramps @ Wilfred/Redwood	\$	166,218	\$	166,218		-
	Total Traffic Control & Intersection Improvements	\$	8,167,875		8,167,875		-

Table 3-2 Signal & Intersection Improvements not Included in the PF Program

Location	Source Reference	Reason for not including in 2011 Update
Eleanor @ Rohnert Park Expressway	University District EIR	Access to development
Labath @ Wilfred	General Plan	Access to development
La Salle Avenue @ East Cotati	Traffic Operations Study	Regional Improvement
Petaluma Hill Road @ East Railroad	Traffic Operations Study	Regional Improvement
Petaluma Hill Road @ Adobe Road	Traffic Operations Study	Regional Improvement
Old Redwood Highway @ East Cotati Ave	Traffic Operations Study	Regional Improvement
Old Redwood Highway @ North McDowell	Traffic Operations Study	Regional Improvement
Old Redwood Highway @ Railroad	Traffic Operations Study	Regional Improvement
Old Redwood Highway @ US 101 Ramps	Traffic Operations Study	Regional Improvement
Redwood @ Commerce	Wilfred Dowdell EIR	Access to development
Snyder Lane @ Eleanor	Northeast SPA EIR	Access to development

New Roadways: The 2011 PFFP includes two roadways that need to be newly constructed: a 2-lane extension of Bodway Parkway between Valley House Drive and Railroad Avenue and a 2 to 4-lane extension of Dowdell Avenue between its current terminus 750-south of Wilfred Avenue to a connection with Martin Drive at Costco.

Reconstructed Roadways in Annexed Areas: In order to implement both its General Plan and several of the Specific Plans, the City will annex four sections of roadways. These historical county roadways need to be completely reconstructed to serve planned development. Dowdell Avenue, between 375' north of its intersection with Wilfred and its current terminus, Rohnert Park Expressway between Snyder Lane and Petaluma Hill Road, and Wilfred Avenue between Redwood Drive and the City's Urban Growth Boundary will be reconstructed as 4-lane roadways. Keiser Avenue between Snyder Lane and Petaluma Hill Road will be reconstructed as a 2-lane roadway.

Widened Roadways within the City Limits: Snyder Lane, currently a two-lane roadway, will be widened to four lanes between Southwest Blvd and G section.

Environmental Mitigation and Right-of-Way: Environmental mitigation costs for the Bodway Parkway Extension, for portions of Dowdell Avenue and for the portion of the Rohnert Park Expressway that fronts Sonoma State University are included because these projects are not contiguous with any SPAs or PDs. Right-of-way acquisition for portions of Dowdell Avenue is included because this segment is not contiguous with any SPA or PD.

Bridge Widenings: In order to complete the widening of Dowdell Avenue and Snyder Lane, it is necessary to widen five bridges that are along these roadway segments.

New Traffic Signals: The City's Traffic Operations Consistency Study and various development EIRs have identified seven new signals as mitigation for development. These are located at Commerce Blvd and State Farm Drive, Commerce Blvd and Southwest Blvd, Dowdell at Business Park Drive, Petaluma Hill Road at Keiser, Redwood Drive at Business Park Drive, Redwood Drive at Wilfred and Snyder Lane at Keiser.

Intersection and Signal Modifications: The City's Traffic Operations Consistency Study and various development EIRs have also identified intersection modifications, which may include signal modifications, at Camino Colegio and East Cotati, Labath and Rohnert Park Expressway, Petaluma Hill Road and Rohnert Park Expressway, Petaluma Hill Road and Valley House, Redwood Drive and Rohnert Park Expressway, Snyder Lane at Rohnert Park Expressway and the US 101 Ramps at Wilfred/Redwood as necessary to serve new development.

3.3 Nexus Findings for Roadway Facilities

3.3.1 Definition of Improvements

According to the General Plan, project specific EIRs and the City's recent review of traffic capacity needs, the roadway improvements described above, including environmental mitigation, right-of-way, bridge widening and traffic signal and intersection modifications, are necessary to mitigate the impacts of new development. The improvements have a total cost of \$31,943,225 including \$19,490,000 for roadways, \$1,362,150 for environmental mitigation and right-of-ways, \$2,923,200 for bridges and \$8,167,875 for traffic signals and intersection modifications. Cost shares between new and existing development are described below.

3.3.2 Cost Allocation Factors

For roadway improvements, trip generation rates are used to create an equivalency relationship between the various land use types in the City. This 2011 Update uses the trip generation rates outlined in Table 3-3 below, which are brought forward from the General Plan. For the purposes of this 2011 Update, residential land uses are classified according to the City's Municipal Code, which is consistent with the definition used in the various traffic studies supporting the EIRs for the SPAs and PDs. Specifically:

- "Single Family Residential" means any use meeting the definition of "dwelling, single-family detached" in Chapter 17.04 of the Municipal Code.
- Multi-Family Residential" means any use meeting the definition of "dwelling, single-family attached", "dwelling, multi-family" or "mobile home" in Chapter 17.04 of the Municipal Code.

Table 3-3 Trip Generation Rates (weekday)

Land Use	Number of Trips	Unit
Single Family Residential	10.00	Dwelling Unit
Multi-Family Residential	6.50	Dwelling Unit
Senior Housing	4.00	Dwelling Unit
Assisted Living Facility	4.00	Dwelling Unit
Office	17.00	1,000 square feet
Hotel	18.00	1,000 square feet
Hotel w/ Conference Center	20.40	1,000 square feet
Retail-Strip Commercial	40.00	1,000 square feet
Retail-Shopping Center	40.00	1,000 square feet
Industrial-Light	7.00	1,000 square feet
Industrial-Heavy	7.00	1,000 square feet
Warehouse	4.88	1,000 square feet
Educational	1.40	Student
Institutional & Government	6.48	1,000 square feet
Recreational	4.10	Acre

3.3.3 Impact Zone Allocation

The proposed roadway improvements are part of the citywide circulation system. Costs are allocated on a citywide basis. Zones are not used to allocate improvement costs; however, costs are allocated to new and existing development as described below.

3.3.4 Fee Component Calculations

Roadway Improvements: The estimated cost for roadway improvements in the 2011 Update is \$31,943,225. This includes the surface costs associated with roadway construction, mitigation costs and right-of-way costs associated with roadway construction, the costs of widened bridges, and the costs of modified intersections. This does not include the costs associated with curbs, gutters, sidewalks, medians, landscaping and underground utilities. These costs are included in the "Median Frontage Improvement" category described in Chapter 4.

Because the City has a developed and functioning circulation system and because the roadway improvements included in the 2011 Update are all necessitated by traffic from new development, the Incremental Cost Method, described in Section 1, is used in the fee component calculations. Specifically:

• New roadways, including Bodway Parkway extension and Dowdell Avenue extension are required to mitigate the impacts of new development. Project specific EIRs and the City's Traffic

Operations Consistency Study demonstrate the need for these improvements as cumulative development builds out in the City. The City would not undertake these improvements except to provide for development; therefore, the costs are entirely allocated to new development.

- For annexed county roadways that need to be completely reconstructed, the costs of roadway reconstruction are allocated to new development. This includes existing Dowdell Avenue, Keiser Avenue, Rohnert Park Expressway and Wilfred Avenue. The City would not annex these roadways except to provide for development. Reconstruction of the roadways to meet City standards is necessary to mitigate the impacts of planned development.
- For improvements to existing roadways within the City's existing limits, costs are allocated to existing and new development proportional to the trips generated at buildout. This method is used for Snyder Lane. The General Plan traffic model and subsequent work for project specific EIRs indicate that approximately one-half the traffic on Snyder Lane is from existing development and approximately one-half is generated by new development. The City's proposed construction strategy is to widen Snyder to four lanes by adding two new lanes and overlaying the existing two lanes. Costs for the overlay are allocated to existing development and costs for the widening are allocated to new development.

Table 3-4, following, illustrates the cost allocation between new and existing development for each roadway segment. Based on this allocation, the 2011 Update uses a budget of \$19,490,000 to calculate the portion of the PF Fee component associated with widening and reconstruction. The City will fund \$901,200 of the total costs and \$18,588,800 is allocated to new development.

Table 3-4 - Cost Allocation for Roadway Improvements

					New		Existing
Roadwa	ays	201	1 Total Costs	D	evelopment	De	velopment
No.	Name						
1	Bodway Parkway: between Valley House and Railroad	\$	994,500	\$	994,500	\$	-
2	Dowdell Avenue: between 375' north & 750' south of Wilfred Avenue	\$	870,000	\$	870,000	\$	-
3	Dowdell Avenue: between 750' south of Wilfred Avenue and Business Park Drive	\$	845,600	\$	845,600	\$	-
4	Dowdell Avenue: between Business Park Drive and 850' south of Business Park Drive	\$	465,000	\$	465,000	\$	-
5	Dowdell Avenue: between 850' south of Business Park Drive and Martin Avenue	\$	588,100	\$	588,100		
6	Keiser Avenue: between Snyder Lane & Petaluma Hill Road	\$	2,588,500	\$	2,588,500	\$	-
7	Rohnert Park Expressway: between Snyder Lane & Petaluma Hill Road	\$	4,658,400	\$	4,658,400	\$	-
8	Snyder Lane: between G Section & north side of Creekside Middle School	\$	3,284,500	\$	2,810,300	\$	474,200
9	Snyder Lane: between south side of Creekside Middle School and Medical Center Drive	\$	828,700	\$	711,500	\$	117,200
10	Snyder Lane: between Medical Center Drive and Southwest Blvd	\$	2,020,900	\$	1,711,100	\$	309,800
11	Wilfred Avenue: between 1999 City Limits and Dowdell Avenue	\$	453,500	\$	453,500	\$	-
12	Wilfred Avenue: between Dowdell Avenue and UGB	\$	1,892,300	\$	1,892,300	\$	-
	Total Roadways	\$	19,490,000	\$	18,588,800	\$	901,200

Environmental Mitigation and Right-of-Way: The estimated cost for environmental mitigation and right-of-way in the 2011 Update is \$1,362,150. The City would not need to acquire property or mitigation environmental impacts except to provide roadway capacity for new development. Therefore, the costs are entirely allocated to new development.

Bridge Widenings: The estimated cost for bridge widenings in the 2011 Update is \$2,923,200. The City would not construct or widen the bridges except to provide roadway capacity for new development. Therefore, the costs are entirely allocated to new development.

Intersection Improvements: The estimated cost for intersection improvements in the 2011 Update is \$8,167,875. The City would not make these improvements except to provide roadway capacity for new development. Therefore, the costs are entirely allocated to new development.

Based on the allocation for roadways, bridges and traffic signals, the cost carried into the mitigation fee calculation is \$31,042,025 including \$18,588,800 for roadways, \$1,362,150 for environmental mitigation and right-of-way, \$2,923,200 for bridges and \$8,167,875 for signals. Table 3-5, presents the traffic mitigation fee component, based on the allocation strategy described above. The resulting fee component per land use category is shown per dwelling unit for residential land uses and per thousand square feet for non-residential land uses. Canon Manor is not included in this calculation.

Table 3-5 – PF Fee Component for Roadway Improvements

New Development Share

\$31,042,025

Cost per Trip Unit

\$237.58

Land Use Class	Total New Units	Trip Generation Rate	Total Trip Units	Cost per Land Use Class	Cost per Use Factor
Single Family Residential (units)	2,897	10.00	28,970	\$2,380	\$ 238
Multi-Family Residential (units)	3,465	6.50	22,523	\$1,547	\$ 238
Senior Housing (units)	2	4.00	8	\$952	\$ 238
Assisted Living (units)	135	4.00	540	\$952	\$ 238
General Office (tsf)	737	17.00	12,526	\$4,046	\$ 238
Hotel/Motel (tsf)	126	18.00	2,268	\$4,284	\$ 238
Strip Retail (tsf)	1,492	40.00	59,700	\$9,520	\$ 238
Light Industrial (tsf)	589	7.00	4,126	\$1,666	\$ 238
Heavy Industrial (tsf)	0	7.00	0	\$1,666	\$ 238
Warehouse (tsf)	0	4.88	0	\$1,161	\$ 238
Total			130,660		

Notes:

(1) Total Cost Allocated to New Development is

\$ 18,588,800 Roadway \$ 2,923,200 Bridge \$ 8,167,875 Signal

\$ 1,362,150 mitigation and right-of-way

(2) Cost per Trip Unit is Total Cost/Total Trips

3.3.5 Nexus Findings for Roadway Improvements

Purpose of Fee Component: The purpose of the roadway fee component is to provide a citywide transportation network, with the levels of service required by the General Plan. The elements include widening and reconstruction of existing roadways and bridges, construction of new roadways, and construction of intersection modifications and traffic signal improvements necessary to serve new development.

Use of Fee: Revenue from fees will be used to fund the design and construction of improvements to the citywide transportation network to accommodate new development as described in this 2011 Update.

Relationship between Use of Fee and Type of Development: Each type of developments' impact on the roadway system is measured by its Trip Generation Rate. Additional trips require that capacity be added to the transportation system if the levels of service outlined in the General Plan are to be maintained.

Relationship between Need for Improvements and Type of Development: The development of new and infill residential and non-residential land uses will generate additional vehicular trips. The capacity of the City's primary circulation system will need to be increased to maintain the level of service

goals outlined in the General Plan. The fees will be used to expand capacity allowing traffic flow patterns and levels of service to meet the goals established in the General Plan.

Relationship Between Amount of Fee Component and Cost or Portion of Facility Attributed to Development Upon Which Fee Component is Imposed: The roadway costs are apportioned between new and existing development as follows:

- 100% of the costs for environmental mitigation and right-of-way, bridge widenings and intersection modifications are apportioned to new development because the City would not widen bridges or modify intersections except to mitigate the impacts of new development.
- For Bodway Parkway extension and Dowdell Avenue extension, which are new roads, 100% of the costs are allocated to new development because the City would not construct these roads except to mitigate the impacts of new development.
- For existing Dowdell Avenue, Keiser Avenue, Rohnert Park Expressway, and Wilfred Avenue,
 which are county roads being annexed to serve development, 100% of the costs are allocated to
 new development because the City would not annex and reconstruct these roads except to
 mitigate the impacts of new development.
- For Snyder Lane, which is within the current City limits and being widened to serve new
 development, the cost of widening is allocated to new development and costs for overlaying and
 repairing existing lanes are allocated to existing development.

Within the various new development land use classes, the Trip Generation Rate of each land use is used to measure its relative impacts and costs are allocated based on Trip Generation Rate.

4 Public Safety & Public Facilities

4.1 Introduction

This chapter and the accompanying Appendix B provide narrative description, graphical representation and cost estimates for the proposed public facilities improvements including public safety facilities, system master plans, City Hall, improvements to the corporation yard, westside backbone utilities and median and frontage landscaping along the roadways included in the PFFP. Because some of the proposed facilities are still the subject of review under CEQA, the descriptions and illustrations included in this 2011 Update are intended to present the basis of the cost estimates, not to commit the City to a particular construction strategy.

4.2 Public Safety Improvements

The original PFFP public safety improvements included expansion of Station 4 (Maurice) and construction of a new Westside Public Safety Station with training and maintenance facilities. After initial program review, it has become clear that expanding Station 4, which is located in a modified residential dwelling, is not a practical alternative particularly with the increased land uses associated with the Sonoma Mountain Village PD. A new Southside Public Safety Station is included in the 2011 Update. In addition, the 2006 Update included both maintenance facilities for public safety and an expansion of the corporation yard for public works. This 2011 Update combines the maintenance functions at the corporation yard and removes the public safety maintenance facilities. Finally, as part of this 2011 update, the Westside Public Safety Station and Training Facility were reviewed with a goal of reducing the overall cost of the facilities. This review resulted in a significant reduction in the cost of the Public Safety Station and a modest increase in the cost of the proposed Training Facilities as a part of overall space programming. The proposed changes result in over \$1,000,000 in cost savings for the combined facilities.

Figure 4-1 illustrates the location of the proposed facilities. Descriptions of the basic design parameters are included below. Table 4-1 provides a summary of the proposed improvements and changes made since the 2006 Update. Appendix B provides detailed cost estimates.

Table 4-1 - Public Safety Improvements and Costs (ENR CCI 10192.79)

					Cha	inge 2006 to
		2006 Total Cost 2011 Total Costs		2011		
Public	Safety - Savings from Proposed Changes					
	New Southside Station	\$	4,964,000	\$ 3,640,300	\$	(1,323,700)
	New Westside Station	\$	8,571,000	\$ 3,722,112	\$	(4,848,888)
	Training Facilities	\$	2,228,700	\$ 5,820,444	\$	3,591,744
	Maintenance Facilities	\$	2,273,500	\$ -	\$	(2,273,500)
	Total Public Safety Facilities	\$	18,037,200	\$ 13,182,856	\$	(4,854,344)

- 3:42pm J: \02056 - Rohnert Park\02056-09-003 Finance Plan Update\CAD\Public Safety Improvements.dwg Mar 28, 2011

Southside Public Safety Station: This is a three bay fire station located east of Highway 101 within the Sonoma Mountain Village PD. The facility will include storage and office areas. This improvement replaces the envisioned Station 4 expansion, which is no longer considered a feasible option.

Westside Public Safety Station: This improvement includes building a three bay station with dormitory space for four to six firefighters. This station is necessary to meet the five-minute response time criteria established by industry standards and the Insurance Service Office Inc. The station will be located west of Hwy 101 within the limits of the Stadium Lands PD.

Training Facilities: These facilities will include a two by 30-person classroom with a divider, a 90,000 square foot exterior training area, and a four story training tower with burn center, and shipping container—style shooting range. The facilities will be located adjacent to the new Westside Station.

Public safety improvements are included if their construction is necessary to maintain the current level of service (measured in either response time or staff-to-population ratio) or if their construction is part of the City's overall plan for service.

4.3 Public Facilities Improvements

Public facilities improvements include median and frontage improvements on the roadways included in the PFFP, the new City Hall, the expansion of the corporation yard to support both public safety and public works needs, master plans for the water and storm drainage systems and westside backbone utilities in Dowdell Avenue. The median and frontage improvements are related to community design standards, not circulation, and it is more appropriate to include them in this category of improvement.

Because three roadway segments have been removed between the 2006 and 2011 Updates, the accompanying median and frontage improvements have also been removed from the 2011 Update. In addition, after review of the program requirements, the expansion to the Senior Center and the Community Center Campus improvements have been removed from the 2011 Update. While the water system master plan was included in the 2006 Update, the storm drainage master plan is a new addition.

Figure 4-2 illustrates the location of the proposed public facilities. Descriptions of the basic design parameters are included below. Table 4-2 provides a summary cost estimate and illustrates the changes between the 2006 Update and the 2011 Update. Appendix B provides detailed cost estimates.

Table 4-2 -Public Facilities Improvements and Costs (ENR CCI 10192.79)

					Ch	ange 2006 to	
Oublic Facilities - Completed Facilities		2006 Total Cost		2011 Total Costs		2011	
City Hall	\$	8,200,000	\$	8,540,000	\$	340,000	
Master Plans (Water & Drainage - completed)	\$	200,000	\$	450,000	\$	250,000	
Public Facilities - Proposed Changes							
Corporation Yard Expansion	\$	1,678,500	\$	2,662,200	\$	983,700	
Westside Utilities (see Dowdell Ave Segment 2-5 estimates for detail)	\$	-	\$	1,605,749	\$	1,605,749	
Senior Center Expansion	\$	121,000	\$	-	\$	(121,000)	
Community Center Campus Improvements	\$	2,175,000	\$	-	\$	(2,175,000)	
Median & Frontage Improvements (see roadway segment estimates for detail)							
Bodway Parkway: between Valley House and Railroad	\$	915,798	\$	1,159,938	\$	244,140	
Commerce Blvd (Enterprise to Southwest)	\$	960,752	\$	-	\$	(960,752)	
Dowdell Avenue: between 375' north & 750' south of Wilfred Avenue	\$	468,068	\$	754,076	\$	286,009	
Dowdell Avenue: between 750' south of Wilfred Avenue and Business Park Drive	\$	815,050	\$	837,863	\$	22,813	
Dowdell Avenue: between Business Park Drive and 850' south of Business Park Drive	\$	-	\$	491,904	\$	491,904	
Dowdell Avenue: between 850' south of Business Park Drive and Martin Avenue	\$	-	\$	622,113	\$	622,113	
Golf Course Drive (Fairway to Country Club)	\$	1,287,132	\$	-	\$	(1,287,132)	
Keiser Avenue: between Snyder Lane & Petaluma Hill Road	\$	2,934,738	\$	2,961,684	\$	26,946	
Rohnert Park Expressway: between Syder Lane & Petaluma Hill road	\$	4,004,370	\$	4,736,232	\$	731,862	
Seed Farm Drive (Rohnert Park Expressway to Enterprise)	\$	457,899			\$	(457,899)	
Snyder Lane: between G Section & north side of Creekside Middle School	\$	1,697,916	\$	2,761,880	\$	1,063,964	
Snyder Lane: between south side of Creekside Middle School and Medical Center Drive	\$	276,122	\$	358,589	\$	82,467	
Snyder Lane: between Medical Center Drive and Southwest Blvd	\$	1,133,668	\$	945,371	\$	(188,297)	
Wilfred Avenue: between 1999 City Limits and Dowdell Avenue	\$	-	\$	508,706	\$	508,706	
Wilfred Avenue: between Dowdell Avenue and UGB	\$	-	\$	2,122,534	\$	2,122,534	
Total Public Facilities	\$	27,326,013	\$	31,518,839	\$	4,192,826	

City Hall: This completed facility at 130 Avram Avenue houses all administrative departments and includes the City Council Chambers. Construction was completed in 2009.

Master Plans: These completed master plans for the water system and drainage system are used to guide decisions for improvements in the water and storm drainage systems to serve both existing and planned development.

Corporation Yard: This 2011 Update budgets for an expansion of the existing corporation yard to include needed maintenance space for public works and public safety. The City may consider relocating and expanding the corporation yard, in which case the budgeted costs for new development can be applied to the larger relocation improvement. While the cost of this individual improvement has gone up, the expanded facility allows for combined use by public works and public safety and saves over \$1,000,000.

Westside Utilities (Dowdell Avenue): These backbone water, sewer and drainage facilities provide a north south utility network for the westside SPAs and PD. These backbone utilities are a shared infrastructure system that will allow the westside specific plan areas and planned development area to connect to the existing utility network.

Median and Frontage Improvements: The median and frontage improvements include curb, gutters, sidewalks, landscaping, streetlighting, and utility undergrounding along the roadways included in this 2011 Update. These improvements are necessary to comply with City standards for development.

4.4 Nexus Findings for Public Safety & Public Facilities

4.4.1 Definition of Improvements

The public facilities improvements described above, including new public safety stations, City Hall, the master plans, improvements to the Corporation Yard and median and frontage improvements are necessary to mitigate the impacts of planned development according to the General Plan, project specific EIRs and City's background and planning documents. These improvements have a total cost of \$44,701,695 including \$13,182,856 for public safety facilities and \$31,518,839 for other public facilities.

4.4.2 Cost Allocation Factors

For public facilities improvements, which are sized to serve population, Common Use Factors (CUFs) have been developed that reflect the impacts of population. These CUFs are used to create an equivalency relationship between the various land use types in the City. Table 4-3 presents the CUFs that are used in the PF Program.

The new Southside Public Safety Station and Median and Frontage Improvements are allocated using the Incremental Cost Methodology, because the need for these facilities is driven by new development. All other public facilities are allocated using the Future System Buy-in Methodology, because the facilities are being designed to serve General Plan buildout.

For the purposes of this 2011 Update, residential land uses are classified according to the City's Municipal Code. Specifically:

- "Single Family Residential" means any use meeting the definition of "dwelling, single-family detached" in Chapter 17.04 of the Municipal Code.
- "Multi-Family Residential" means any use meeting the definition of "dwelling, single-family attached", "dwelling, multi-family" or "mobile home" in Chapter 17.04 of the Municipal Code.

Table 4-3 Common Use Factors for Residential Land Uses

Land Use	CUF	Unit
Single Family Residential	3.20	Dwelling Unit
Multi-Family Residential	2.00	Dwelling Unit
Senior Housing	2.00	Dwelling Unit
Assisted Living Facility	1.00	Dwelling Unit
Office	2.86	1,000 square feet
Hotel	1.05	1,000 square feet
Retail	1.82	1,000 square feet
Industrial-Light	0.66	1,000 square feet
Industrial-Heavy	0.66	1,000 square feet
Warehouse	0.66	1,000 square feet

4.4.3 Impact Zone Allocation

The public safety facilities are allocated to impact zones. The areas west of Highway 101 support the construction of the Westside Public Safety Station. The areas east of Highway 101 support the construction of the new Southside Public Safety Station. The Training and Maintenance facilities are allocated citywide because they provide citywide service.

The proposed public facilities improvements, except for the westside backbone utilities, support the delivery of city-wide services and are allocated citywide. The westside backbone utilities support the delivery of utility service to new development west of Highway 101. Costs for the westside backbone utilities are allocated to these developments.

4.4.4 Fee Component Calculations

The component calculations for public facilities improvements are outlined in Tables 4-4 through 4-12 below. The tables outline the allocation of the total cost to each land use, including new and existing land uses within the City. The resulting fee per land use category is shown per dwelling unit for residential land uses and per thousand square feet for non-residential land uses.

Table 4-4 - PF Fee Component for Southside Station

Total Cost: \$ 3,640,300 Cost per CUF \$222.25

Land Use Class	Units		CUF (2)	Total Common Use Factors			Percen	t Share	Co	Cost Per Land Use Class (3)		
	Existing	New	Total		Existing	New	Total	Existing	New	Existing	New	New
Single Family Residential (units)	0	2,897	2,897	3.20	0	9,270	9,270	0.00%	56.60%	\$ -	\$ 2,060,339	\$ 711
Multi-Family Residential (units)	0	2,227	2,227	2.00	0	4,454	4,454	0.00%	27.19%	\$ -	\$ 989,898	\$ 444
Senior Housing (units)	0	2	2	2.00	0	4	4	0.00%	0.02%	\$ -	\$ 854	\$ 444
Assisted Living (units)	0	135	135	1.00	0	135	135	0.00%	0.82%	\$ -	\$ 30,004	\$ 222
General Office (tsf)	0	507	507	2.86	0	1,450	1,450	0.00%	8.85%	\$ -	\$ 322,170	\$ 636
Hotel/Motel (tsf)	0	126	126	1.05	0	132	132	0.00%	0.81%	\$ -	\$ 29,404	\$ 233
Retail (tsf)	0	501	501	1.82	0	911	911	0.00%	5.56%	\$ -	\$ 202,492	\$ 404
Light Industrial (tsf)	0	35	35	0.66	0	23	23	0.00%	0.14%	\$ -	\$ 5,143	\$ 147
Heavy Industrial (tsf)	0	0	0	0.66	0	0	0	0.00%	0.00%	\$ -	\$ -	\$ 147
Warehouse (tsf)	0	0	0	0.66	0	0	0	0.00%	0.00%	\$ -	\$ -	\$ 147
Total					0	16,379	16,379	0.00%	100.00%	\$ -	\$ 3,640,304	

Notes:

- (1) Cost per Common Use Factor is Total Cost/Total Common Use Factors
- (2) Common Use Factor is people/land use unit
- (3) Cost per Land Use Unit is Cost per Common Use Factor x Common Use Factor for the Land Use

Table 4-5 - PF Fee Component for Westside Station

Total Cost: \$ 3,722,112

New Development Share \$ 1,795,002

Cost per CUF \$338.37

(1) Cost Per Land Total Common Use Land Use Class Units CUF **Use Factors** Percent Share **Cost Share** Class (3) (2) Existing New Total Existing New Total Existing New Existing New New Single Family Residential (units) 0 3.20 0 0 0 0.00% 0.00% \$ 1.083 Multi-Family Residential (units) 272 2.00 2,068 2,476 4,544 18.80% 22.51% 677 Senior Housing (units) 0 2.00 0 0.00% 0.00% 677 Assisted Living (units) 0 1.00 0.00% 0.00% 338 General Office (tsf) 70 300 2.86 199 658 67.310 \$ 222,577 968 230 857 1 81% 5.98% \$ Hotel/Motel (tsf) 193 193 1.05 202 202 1.84% 0.00% 68,440 355 Retail (tsf) 1,211 992 2,203 1.82 2,204 1,805 4,009 20.04% 16.41% 745,766 \$ 610,826 616 Light Industrial (tsf) 545 554 1,099 0.66 360 366 725 3.27% 3.33% 121,655 \$ 123,808 223 Heavy Industrial (tsf) 223 0 0.66 0.00% 0.00% \$ 0 0 0 Warehouse (tsf) 0 1,004 0.66 1.004 663 224.199 \$ 0 663 0.00% \$ 6.02% Total 5,695 5,305 11,000 51.77% 48.23% \$ 1,927,110 \$ 1,795,002

Notes:

3722112

- (1) Cost per Common Use Factor is Total Cost/Total Common Use Factors
- (2) Common Use Factor is people/land use unit
- (3) Cost per Land Use Unit is Cost per Common Use Factor x Common Use Factor for the Land Use

Table 4-6 - PF Fee Component for Training Facilities

Total Cost: \$ 5,820,444 New Development Share: \$ 1,734,818

> Cost per CUF 80.00

Land Use Class	Units			CUF (2)	Total Common Use Factors			Percent Share			Cost Share				Cost Per Land Use Class (3)	
	Existing	New	Total	(-/	Existing	New	Total	Existing	New		Existing		New		New	
Single Family Residential (units)			10,445	3.20	24,154	9,270	33,424	33.20%	12.74%	\$	1,932,372	\$	741,664	\$	256	
Multi-Family Residential (units)	8,594	3,465	12,109	2.00	17,188	6,930	24,118	23.63%	9.53%	\$	1,375,100	\$	554,424	\$	160	
Senior Housing (units)	207	2	209	2.00	414	4	418	0.57%	0.01%	\$	33,122	\$	307	\$	160	
Assisted Living (units)	0	135	135	1.00	0	135	135	0.00%	0.19%	\$	-	\$	10,800	\$	80	
General Office (tsf)	1,029	737	1,765	2.86	2,942	2,107	5,049	4.04%	2.90%	\$	235,333	\$	168,598	\$	229	
Hotel/Motel (tsf)	519	126	645	1.05	545	132	678	0.75%	0.18%	\$	43,639	\$	10,584	\$	84	
Retail (tsf)	2,030	1,492	3,620	1.82	3,695	2,716	6,411	5.08%	3.73%	\$	295,612	\$	217,316	\$	146	
Light Industrial (tsf)	1,638	589	1,493	0.66	1,081	389	1,470	1.49%	0.53%	\$	86,516	\$	31,124	\$	53	
Heavy Industrial (tsf)	0	0	0	0.66	0	0	0	0.00%	0.00%	\$	-	\$	-	\$	53	
Warehouse (tsf)	1,590	0	1,590	0.66	1,049	0	1,049	1.44%	0.00%	\$	83,937	\$	-	\$	53	
Total			·		51,068	21,684	72,752	70.19%	29.81%	\$	4,085,626	\$	1,734,818			

- (1) Cost per Common Use Factor is Total Cost/Total Common Use Factors
- (2) Common Use Factor is people/land use unit
- (3) Cost per Land Use Unit is Cost per Common Use Factor x Common Use Factor for the Land Use

Table 4-7 - PF Fee Component for City Hall

Total Cost \$ 8,540,000 New Development Share: \$ 2,545,399

Cost per CUF \$117.38

												(.,
Land Use	Units		CUF (2)				Percent	Share	Cost	Cost Per Land Use Unit (3)		
		1 1		(2)								(3)
	Existing	New	Total		Existing	New	Total	Existing	New	Existing	New	New
Single Family Residential (units)	7,548	2,897	10,445	3.20	24,154	9,270	33,424	33.20%	12.74%	\$ 2,835,257	\$ 1,088,201	\$ 376
Multi-Family Residential (units)	8,594	3,465	12,109	2.00	17,188	6,930	24,118	23.63%	9.53%	\$2,017,604	\$ 813,474	\$ 235
Senior Housing (units)	207	2	209	2.00	414	4	418	0.57%	0.01%	\$ 48,598	\$ 451	\$ 235
Assisted Living (units)	0	135	135	1.00	0	135	135	0.00%	0.19%	\$ -	\$ 15,847	\$ 117
General Office (tsf)	1,029	737	1,765	2.86	2,942	2,107	5,049	4.04%	2.90%	\$ 345,290	\$ 247,375	\$ 336
Hotel/Motel (tsf)	519	126	645	1.05	545	132	678	0.75%	0.18%	\$ 64,029	\$ 15,530	\$ 123
Retail (tsf)	2,030	1,492	3,620	1.82	3,695	2,716	6,411	5.08%	3.73%	\$ 433,734	\$ 318,855	\$ 214
Light Industrial (tsf)	1,638	589	1,493	0.66	1,081	389	1,470	1.49%	0.53%	\$ 126,939	\$ 45,667	\$ 77
Heavy Industrial (tsf)	0	0	0	0.66	0	0	0	0.00%	0.00%	\$ -	\$ -	\$ 77
Warehouse (tsf)	1,590	0	1,590	0.66	1,049	0	1,049	1.44%	0.00%	\$ 123,155	\$ -	\$ 77
Total					51,068	21,684	72,752	70.19%	29.81%	\$ 5,994,601	\$ 2,545,399	

- (1) Cost per Common Use Factor is Total Cost/Total Common Use Factors
- (2) Common Use Factor is people/land use unit
 (3) Cost per Land Use Unit is Cost per Common Use Factor x Common Use Factor for the Land Use

Table 4-8 - PF Fee Component for Water System Master Plan

 Total Cost:
 \$ 200,000

 New Development Share:
 \$ 59,611

 Cost per CUF
 \$ 2.75

Land Use Class		Units		CUF (2)		Common Factors	Use	Percen	t Share	Cost S	hare	Cost Per Land Use Unit (3)		
	Existing	New	Total		Existing	New	Total	Existing	New	Existing	New		New	
Single Family Residential (units)	7,548	2,897	10,445	3.20	24,154	9,270	33,424	33.20%	12.74%	\$ 66,399	\$25,485	\$	8.80	
Multi-Family Residential (units)	8,594	3,465	12,059	2.00	17,188	6,930	24,118	23.63%	9.53%	\$ 47,251	\$19,051	\$	5.50	
Senior Housing (units)	207	2	209	2.00	414	4	418	0.57%	0.01%	\$ 1,138	\$ 11	\$	5.50	
Assisted Living (units)	0	135	135	1.00	0	135	135	0.00%	0.19%	\$ -	\$ 371	\$	2.75	
General Office (tsf)	1,029	737	1,765	2.86	2,942	2,107	5,049	4.04%	2.90%	\$ 8,086	\$ 5,793	\$	7.86	
Hotel/Motel (tsf)	519	126	645	1.05	545	132	678	0.75%	0.18%	\$ 1,499	\$ 364	\$	2.89	
Retail (tsf)	2,030	1,492	3,523	1.82	3,695	2,716	6,411	5.08%	3.73%	\$ 10,158	\$ 7,467	\$	5.00	
Light Industrial (tsf)	1,638	589	2,228	0.66	1,081	389	1,470	1.49%	0.53%	\$ 2,973	\$ 1,069	\$	1.81	
Heavy Industrial (tsf)	0	0	0	0.66	0	0	0	0.00%	0.00%	\$ -	\$ -	\$	1.81	
Warehouse (tsf)	1,590	0	1,590	0.66	1,049	0	1,049	1.44%	0.00%	\$ 2,884	\$ -	\$	1.81	
Total					51,068	21,684	72,752	70.19%	29.81%	\$ 140,389	\$59,611		·	

Notes:

- (1) Cost per Common Use Factor is Total Cost/Total Common Use Factors
- (2) Common Use Factor is people/land use unit
- (3) Cost per Land Use Unit is Cost per Common Use Factor x Common Use Factor for the Land Use

Table 4-9 - PF Fee Component for Drainage Master Plan

Total Cost: \$ 250,000

New Development Share: \$ 74,514

Cost per CUF \$ 3.44

(1)

Land Use Class	Uni	ts	CUF (2)		Common Factors	Use	Percen	t Share	Cost Share		Cost Per L Use Cla		
			(2)										(3)
	Existing	New		Existing	New	Total	Existing	New	Existin	g	New		New
Single Family Residential (units)	7,548	2,897	3.20	24,154	9,270	33,424	33.20%	12.74%	\$ 82,9	99 \$	31,856	\$	11.00
Multi-Family Residential (units)	8,594	3,465	2.00	17,188	6,930	24,118	23.63%	9.53%	\$ 59,0	3 \$	23,814	\$	6.87
Senior Housing (units)	207	2	2.00	414	4	418	0.57%	0.01%	\$ 1,4	23 \$	13	\$	6.87
Assisted Living (units)	0	135	1.00	0	135	135	0.00%	0.19%	\$. 9	6 464	\$	3.44
General Office (tsf)	1,029	737	2.86	2,942	2,107	5,049	4.04%	2.90%	\$ 10,1	08 \$	7,242	\$	9.83
Hotel/Motel (tsf)	519	126	1.05	545	132	678	0.75%	0.18%	\$ 1,8	74 \$	455	\$	3.61
Retail (tsf)	2,030	1,492	1.82	3,695	2,716	6,411	5.08%	3.73%	\$ 12,6	97 \$	9,334	\$	6.25
Light Industrial (tsf)	1,638	589	0.66	1,081	389	1,470	1.49%	0.53%	\$ 3,7	16 \$	1,337	\$	2.27
Heavy Industrial (tsf)	0	0	0.66	0	0	0	0.00%	0.00%	\$. 9	· -	\$	2.27
Warehouse (tsf)	1,590	0	0.66	1,049	0	1,049	1.44%	0.00%	\$ 3,6)5 \$; -	\$	2.27
Total				51,068	21,684	72,752	70.19%	29.81%	\$ 175,4	36	74,514		

Notes

- (1) Cost per Common Use Factor is Total Cost/Total Common Use Factors
- (2) Common Use Factor is people/land use unit
- (3) Cost per Land Use Unit is Cost per Common Use Factor x Common Use Factor for the Land Use

Table 4-10 - PF Fee Component for Corporation Yard

Total Cost: \$ 2,662,200

New Development Share: \$ 2,662,200

Cost per CUF \$ 122.77

(1)

Land Use		Units		CUF (2)		Commor Factors	ı Use	Percen	t Share	Cost Share			st Per and e Unit
	Existing	New	Total		Existing	New	Total	Existing	New	Existing	New	N	New
Single Family Residential (units)	0	2,897	10,445	3.20	0	9,270	9,270	0.00%	42.75%	\$ -	\$ 1,138,135	\$	393
Multi-Family Residential (units)	0	3,465	12,109	2.00	0	6,930	6,930	0.00%	31.96%	\$	\$ 850,802	\$	246
Senior Housing (units)	0	2	209	2.00	0	4	4	0.00%	0.02%	\$	\$ 471	\$	246
Assisted Living (units)	0	135	135	1.00	0	135	135	0.00%	0.62%	\$	\$ 16,574	\$	123
General Office (tsf)	0	737	1,765	2.86	0	2,107	2,107	0.00%	9.72%	\$	\$ 258,726	\$	351
Hotel/Motel (tsf)	0	126	645	1.05	0	132	132	0.00%	0.61%	\$ -	\$ 16,243	\$	129
Retail (tsf)	0	1,492	3,620	1.82	0	2,716	2,716	0.00%	12.53%	\$	\$ 333,486	\$	223
Light Industrial (tsf)	0	589	1,493	0.66	0	389	389	0.00%	1.79%	\$	\$ 47,762	\$	81
Heavy Industrial (tsf)	0	0	0	0.66	0	0	0	0.00%	0.00%	\$ -	\$ -	\$	81
Warehouse (tsf)	0	0	1,590	0.66	0	0	0	0.00%	0.00%	\$ -	\$ -	\$	81
Total					0	21,684	21,684	0.00%	100.00%	\$	- \$ 2,662,200		

Notes:

- (1) Cost per Common Use Factor is Total Cost/Total Common Use Factors
- (2) Common Use Factor is people/land use unit
- (3) Cost per Land Use Unit is Cost per Common Use Factor x Common Use Factor for the Land Use

Table 4-11 - PF Fee Component for Westside Utilities

Total Cost: \$ 1,605,749

New Development Share \$ 1,605,749

Cost per CUF \$ 302.69

Cost Per Total Common Use Land Land Use Class Units CUF Percent Share **Cost Share Factors** Use Class (2) (3) Existing Existing Existing Existing New New New New Total Single Family Residential (units) 0 3.20 0.00% 0.00% \$ 969 Multi-Family Residential (units) 749,461 1,238 2.00 2,476 0.00% 46.67% \$ 2,476 605 Senior Housing (units) 2.00 0.00% 0.00% 605 Assisted Living (units)
General Office (tsf) 1.00 0.00% 0.00% 303 2.86 0.00% 12.40% 866 Hotel/Motel (tsf) 1.05 0.00% 0.00% Retail (tsf) 992 1.82 1,805 0.00% 34.03% 551 Light Industrial (tsf) 0.66 366 366 0.00% 6.90% 110,754 200 Heavy Industrial (tsf) Warehouse (tsf) 0.66 0.00% 0.00% \$ 200 0 0.66 0.00% 0.00% \$ 200 Total 0.00% 100.00% \$ \$ 1,605,749

Notes:

- (1) Cost per Common Use Factor is Total Cost/Total Common Use Factors
- (2) Common Use Factor is people/land use unit
- (3) Cost per Land Use Unit is Cost per Common Use Factor x Common Use Factor for the Land Use

Table 4-12 - PF Fee Component for Median & Frontage Improvements

Total Cost: \$ 18,260,890

New Development Share: \$ 18,260,890

Cost per CUF: \$ 842.13

(1)

Land Use Class	l	Jnits		CUF	Total Common Use Factors		Percen	t Share	Co	Cost Per Land Use Class		
	Existing	New	Total	(2)	Existing	New	Total	Existing	New	Existing	New	(3) New
Single Family Residential (units)	0	2,897	2,897	3.20	0	9,270	9,270	0.00%	42.75%	\$ -	\$ 7,806,837	\$ 2,695
Multi-Family Residential (units)	0	3,465	3,465	2.00	0	6,930	6,930	0.00%	31.96%	\$ -	\$ 5,835,927	\$ 1,684
Senior Housing (units)	0	2	2	2.00	0	4	4	0.00%	0.02%	\$ -	\$ 3,234	\$ 1,684
Assisted Living (units)	0	135	135	1.00	0	135	135	0.00%	0.62%	\$ -	\$ 113,687	\$ 842
General Office (tsf)	0	737	737	2.86	0	2,107	2,107	0.00%	9.72%	\$ -	\$ 1,774,686	\$ 2,408
Hotel/Motel (tsf)	0	126	126	1.05	0	132	132	0.00%	0.61%	\$ -	\$ 111,413	\$ 884
Retail (tsf)	0	1,492	1,492	1.82	0	2,716	2,716	0.00%	12.53%	\$ -	\$ 2,287,488	\$ 1,533
Light Industrial (tsf)	0	589	589	0.66	0	389	389	0.00%	1.79%	\$ -	\$ 327,618	\$ 556
Heavy Industrial (tsf)	0	0	0	0.66	0	0	0	0.00%	0.00%	\$ -	\$ -	\$ 556
Warehouse (tsf)	0	0	0	0.66	0	0	0	0.00%	0.00%	\$ -	\$ -	\$ 556
Total					0	21,684	21,684	0.00%	100.00%	\$ -	\$ 18,260,890	

Notes:

(1) Cost per Common Use Factor is Total Cost/Total Common Use Factors

- (2) Common Use Factor is people/land use unit
- (3) Cost per Land Use Unit is Cost per Common Use Factor x Common Use Factor for the Land Use

4.4.5 Nexus Findings for Public Facilities Improvements

Purpose of Fee Components: The public facilities fee component funds:

- Capital improvements needed to support the delivery of public safety services within the response standards established by the General Plan;
- Capital improvements needed to expand public facilities and support the delivery of general public services at service levels established by the General Plan; and
- Improvements to curb, gutter, sidewalks, median sidewalk, streetlighting, drainage, utility underground and landscaping in accordance with the design standards established in the General Plan and by the City's standards.

Use of Fee: Revenue from fees will be used to:

- Design and construct one Public Safety Station to serve the area west of Highway 101; design and construct one Public Safety Station to serve new development east of Highway 101; design and construct Public Safety training facilities to serve the entire City;
- Design and construct City Hall (complete) and the expanded corporation yard to serve the entire City;
- Prepare water and drainage system master plans;
- Design and construct backbone water, sewer and storm drainage facilities to support westside development; and
- Design and construct curb, gutter, sidewalk, median, streetlighting, landscaping and underground utilities to allow new roadways serving new development to meet General Plan and City design standards.

Relationship between Use of Fee and Type of Development: The development of new and infill residential and non-residential land uses will result in increased population in the City. This increased population will consist of new residents, workers and visitors. This new population will require services from the City. The City will use fee revenue to fund the expansion of its public safety facilities and its general public facilities in order to house the staff and equipment and provide services to new residents, workers and visitors.

Relationship between Need for Improvements and the Type of Development: Each type of new development's impact on public safety and general public facilities is measured by its CUF. The CUF allows the relative impact of residential and non-residential land uses to be modeled so that each development's impact on each proposed improvement can be calculated.

Relationship between Amount of Fee and Cost of or Portion of Facility Attributed to Development Upon Which Fee is Imposed: CUFs are used to measure the relative benefit of public safety facilities, and public facilities and to attribute cost shares to benefiting populations. Population based fees are calculated using the following steps:

- 1. The cost of each improvement is allocated either citywide or to impact zones, as appropriate.
- Costs are then allocated between new and existing development (either within the impact zone or citywide) based on the total population equivalency of new development and existing development.
- 3. New developments' share of costs is then allocated to each land use class based on the population equivalency of that class in order to arrive at the fee component. The formula for allocation is illustrated below.

Fee Component per New = Total New Development x CUF per Land Use Class/Total CUFS

Land Use Class Share of Improvement for New Development

For each Population Based Fee Component, the allocation to impact zones and the allocation between new and existing development is described below. The allocation among new development land use classes consistently follows the formula outlined above.

<u>Westside Public Safety Station</u>: The cost is allocated only to land uses west of Highway 101 because the station serves this area. This facility will address an existing service need as well as provide capacity for new service. Therefore costs are allocated between new and existing development.

<u>Southside Public Safety Station:</u> The cost is allocated only to land uses east of Highway 101 because the station serves this area. This facility is required because of the impacts of new development. Therefore the costs are allocated only to new development.

<u>Public Safety Training Facilities</u>: The cost is allocated to all land uses in the City because the training facilities will be utilized by all Public Safety staff. This facility will address an existing service need as well as provide capacity for new service. Therefore costs are allocated between new and existing development.

<u>City Hall:</u> The cost is allocated to all land uses in the City because the City Hall houses the staff and functions that serve the entire City. This facility addresses an existing service need as well as providing capacity for new service. Therefore costs are allocated between new and existing development.

<u>Water and Drainage Master Plans:</u> These costs are allocated to all land uses in the City, new and existing, because the comprehensive planning effort supports infrastructure for all users.

<u>Corporation Yard Expansion:</u> This cost is allocated citywide because the expansion will allow for service to be provided to the whole City. This expansion is required because of the impacts of new development. Therefore the costs are allocated only to new development.

<u>Westside Backbone Utilities (Dowdell Avenue):</u> This cost is allocated to the area west of Highway 101 because the new utilities will provide service for new development. The new backbone utilities are required because of the impacts of new development. Therefore the costs are allocated only to new development.

<u>Median and Frontage Improvements:</u> This cost is allocated citywide because the median and frontage improvements are consistent with General Plan guidance regarding community form. The improvements are required because of the impacts of new development on medians and frontages. Therefore the costs are allocated only to new development.

This page intentionally left blank

5 Sewer Facilities

5.1 Introduction

This chapter provides narrative description, graphical representation and cost estimates for the proposed sewer facility improvements including sewer collection system infrastructure owned and operated by the City and wastewater treatment, disposal and reuse infrastructure owned by the Santa Rosa Subregional System. Because some of the proposed facilities are still the subject of review under CEQA, the descriptions and illustrations included in this 2011 Update are intended to present the basis of the cost estimates, not to commit the City to a particular construction strategy.

5.2 Description of Sewer Facilities

The City owns and operates a sewer collection system, pump station and outfall. The City, together with the cities of Cotati, Santa Rosa and Sebastopol and portions of unincorporated Sonoma County, contracts with the Santa Rosa Subregional System for wastewater treatment, disposal and reuse. The Subregional System's current facilities include the Laguna Water Reclamation Plant, the Geysers Pipeline, a network of recycled water storage and distribution facilities and facilities to dispose of treated effluent to the Laguna de Santa Rosa. These existing facilities, which have been constructed and financed by Santa Rosa and its partners, provide a total existing capacity of 21.3 million gallons per day (MGD). The Subregional System partners currently utilize approximately 18 MGD of capacity. The City provides sewer service to the Canon Manor SPA, including collecting, pumping and treatment capacity. The agreement between the City and the County of Sonoma for Canon Manor service is included Appendix D.

From 2003 to 2005, the City conducted a comprehensive assessment of the capacity of its collection facilities which included flow monitoring and modeling. This analysis indicated that the City's existing facilities were at capacity and could not accommodate planned growth without expansion. The City has defined two major projects, the Eastside Trunk Sewer Project and the Interceptor Outfall Project, that are necessary to provide collection system capacity for General Plan buildout, including the Canon Manor area. Each of these projects has been pursued in phases.

Like the City, the Subregional System has defined its long-term needs for both capacity expansion and improved reliability. Beginning in 2001, Santa Rosa, in its role as Managing Partner of the Subregional System, began the process of developing a long term plan to manage regulatory change and planned growth. This effort, which came to be known as the Incremental Recycled Water Program or IRWP, included a detailed review of the historic flows from each member agency. These historic flow patterns were applied to the General Plan population and land use projections in order to generate an estimate of future capacity needs. The Subregional System then developed a range of programs for managing the flow that it is currently permitted to discharge to the Russian River and for managing additional flows. The IRWP envisions a total capacity expansion from 21.3 MGD to 25.9 MGD which will result in approximately 2,200 million gallons per year (MGY) of additional recycled water.

In November 2003, Santa Rosa certified the Environmental Impact Report for the IRWP and in March 2004 it adopted its IRWP Master Plan which outlined four capacity expansion strategies and improvements to the treatment and discharge system to meet regulatory requirements. The capacity expansion strategies include Indoor Water Conservation, expansion of delivery to the Geysers, Urban Reuse and Agricultural Reuse. To date, Santa Rosa and its partners have moved forward with Water Conservation and the Geysers Expansion and have completed planning on discrete Urban Reuse projects for Cotati, Rohnert Park and Santa Rosa.

Descriptions of the basic design parameters and cost estimates are included below. Figure 5-1 illustrates the City's Capacity Expansion Projects.

5.2.1 City Sewer Infrastructure

Eastside Trunk Sewer: The General Plan identified the need for the Eastside Trunk Sewer to provide capacity for new development, including connections in Canon Manor. During predesign of the Eastside Trunk Sewer, the City identified several locations where it could tie-in existing portions of its collection system and resolve existing sewer capacity limitations that created potential for overflows. The Eastside Trunk Sewer, as proposed, now serves all new eastside development, Canon Manor and some existing sewer customers. Because of the design of the Eastside Trunk Sewer, these developments do not use capacity in the City's existing collection system and hence have no "fair share" allocation of existing collection system facilities.

Phase 1: Phase 1 of the Eastside Trunk Sewer, which extends from the City's terminal pump station to the intersection of Commerce Blvd. and Avram Avenue, includes 5,700 feet of 42-inch diameter gravity sewer. Construction was completed in 2009 at a total cost of \$13,761,934. This project benefits mainly new development but the City did oversize the sewer to allow it to reroute some flows from existing development. The City financed construction through a \$3,706,219 cash contribution with the remaining costs covered by tax increment bond refunding (Series 2007R Tax Allocation Bonds) through its redevelopment agency. Series 2007R had a total principal value of \$22,305,000: \$10,055,724 of this principal amount was dedicated to the construction of Eastside Trunk Sewer Phase 1.

Because the City financed the Eastside Trunk Sewer Phase 1 with its Tax Allocation Bonds, the fee component calculation is based on both the actual cost of construction and the present value of the stream of interest payments owed on the Series 2007R Tax Allocation Bonds. Interest costs are taken from the debt service schedule for Series 2007R Tax Allocation Bonds. Because 45.1% of this bond issue was devoted to constructing the Eastside Trunk Sewer Phase 1, 45.1% of the interest costs are included the valuation.

The detailed present value calculation, including interest rates used, is included in Appendix B. Table 5-1 below presents a summary of the costs for Eastside Trunk Sewer Phase 1 that are included in the PF Fee Program.

Table 5-1 – Eastside Trunk Phase 1 – Costs included in the PF Fee Program (actual costs)

\$7,843,392
(\$3,706,219)
\$17,899,116

Phase 2 Main Reach: Phase 2 of the Eastside Trunk Sewer extends from the intersection of Commerce Blvd and Avram Avenue, east along Santa Alicia Drive and Southwest Blvd to Snyder Lane. Phase 2a includes approximately 8,600 feet of 24-inch diameter gravity sewer. The pipeline is estimated to cost approximately \$10,600,000. This projects benefits mainly new development but the City did oversize the sewer to allow it to reroute some existing flows.

Phase 2a: Phase 2a of the Eastside Trunk Sewer extends from the intersection of Snyder Lane and Southwest Blvd south to the intersection of Snyder Lane and East Cotati Avenue. Phase 2a includes approximately 1,300 feet of 18-inch gravity sewer. The pipeline is estimated to cost approximately \$1,150,329. This project benefits mainly new development but the City did oversize the sewer to allow it to reroute some existing flows.

Phase 3: Phase 3 of the Eastside Trunk Sewer extends from the intersection of Snyder Lane and Southwest Blvd north along Snyder Lane to its intersection with Rohnert Park Expressway. Phase 3 includes approximately 2,000 feet of 24-inch diameter gravity sewer. The pipeline is estimated to cost approximately \$2,800,000. This phase of the project is sized only to benefit new development.

Detailed cost estimates are presented in Appendix B for Phase 2, 2a and 3. Table 5-2 summarizes the cost estimates

Table 5-2 – Eastside Trunk Sewer Phase 2, 2a and 3 Cost Estimate (ENR CCI 10192.79)

\$10,637,139
\$1,150,329
\$2,805,235

Interceptor Outfall Project: The Interceptor Outfall Project includes a new 30-inch sewer interceptor/outfall extending from the City's terminal pump station to the Santa Rosa's Subregional Water Reclamation Facility and rehabilitation of the existing pump station and 24-inch interceptor/outfall. The City's Sewer Model Study indicated that the project was necessary to provide a reliable pumping and force-main system with adequate capacity for the City's sewer service area, including the Canon Manor service area. This project has also been developed to include two phases.

Phase 1: Phase 1 of the Interceptor Outfall Project is the 30-inch pressure sewer constructed in 2005. The City financed construction with the sale of certificates of participation secured by its sewer enterprise fund. In order to account for the present value of principal and interest on Phase 1, the City computed the reconstruction-cost-new-less-depreciation for the project as \$13,517,373. The City has computed the present value of the interest costs associated with Interceptor Outfall Project Phase 1 as \$9,615,250. Interest costs are taken from the debt service schedule for the certificates of participation.

Phase 2: Phase 2 of the Interceptor Outfall Project includes upgrades to existing terminal pump station and rehabilitation of the original 24-inch force main. The phase 2 project is estimated to cost \$6,681,263.

The detailed cost estimates including the present value calculation and interest rates used are included in Appendix B. Table 5-3 summarizes the costs that are included in the PF Fee Program for the Interceptor Outfall Project Phase 1.

Table 5-3 – Interceptor Outfall Project – Costs included in the PF Fee Program

Interceptor Outfall Project Phase 1 – Construction	\$13,517,373
Interceptor Outfall Project Phase 1 – Interest	9,615,250
Interceptor Outfall Project Phase 2 (ENR CCI 10192.79)	\$6,681,263
Total Costs	\$29,813,886

5.2.2 Subregional System Facilities

Through the IRWP Master Plan process, the Subregional System developed current and future wastewater flow projections for each of its member agencies using General Plan information, projections made by the Association of Bay Area Governments (ABAG). Table 5-4, below, presents the IRWP Capacity Expansion calculations.

Table 5-4 IRWP Capacity Expansion Calculations⁶

	Cotati	Rohnert	Santa	Sebastopol	South	Total
		Park	Rosa		Park	
Annual Wastewater Flow (MGD)						
2004	0.61	3.91	14.16	0.71	0.62	20.01
2020	0.76	5.15	18.44	0.84	0.70	25.89
Existing Ownership Share						
MGD	0.76	3.43	15.61	0.84	0.70	21.34
Percentage	3.56%	16.07%	73.15%	3.94%	3.28%	100.00%
Future Ownership Share						
MGD	0.76	5.15	18.44	0.84	0.70	25.89
Percentage	2.94%	19.89%	71.22%	3.24%	2.70%	100.00%

Table 5-4 illustrates that the City has a 16% share in the existing capacity of the Subregional System and that this share is anticipated to grow to almost 20% as the Subregional System builds out to full capacity.

In 2007, Santa Rosa undertook a comprehensive update of its water and sewer capacity charges. This effort, which was performed by the Reed Group, is documented in <u>City of Santa Rosa Water and Wastewater Demand Fee Study Final Report</u> (March 6, 2007) (Santa Rosa Study). As part of that effort, Santa Rosa prepared a comprehensive valuation of existing facilities and planned facilities. The Santa Rosa Study developed the Present Value of Existing and Planned Facilities for the following types of assets:

- Replacement Cost less Depreciated Value for Existing Facilities with a baseline of June 30, 2006;
- Present Value of Interest and Issuance Costs for Past Debt Issuance with a baseline of June 30,
 2006;
- Present Value of the 5-Year Capital Improvement Program (CIP) through June 2006;
- Present Value of the 5-Year CIP through June 2012 with a 75% allowance for bond financing costs;
- Present Value of the proposed Santa Rosa Urban Reuse Project with a 75% allowance for bond financing costs;
- Present value of IRWP facilities that will be constructed after 2012 with a 75% allowance for bond financing costs.

0205609003 October 2011

_

⁶ City of Santa Rosa Incremental Recycled Water Program Economic and Financial Assessment (Hilton, Farnkopf & Hobson, LLC, February 2004) Schedule 9A

As part of the Santa Rosa Study, existing facilities and CIP proposals were reviewed in order to avoid double-counting of facilities and the 75% financing factor was documented based on a review of prior bond sales. Because of this, the Santa Rosa Study provides a good baseline of the Present Value of Existing and Proposed Subregional System Facilities. However, this 2011 Update makes two adjustments to bring the estimate of value up to a current baseline. Specifically,

- Replacement Cost less Depreciated Value for Existing Facilities was adjusted to account for four additional years of depreciation. For this purposes of this analysis, equipment was assumed to have a 20-year life, all other existing capital assets were assumed to have a 50-year life and land was not depreciated;
- Present Value of Interest and Issuance Costs for Past Debt Issuance were adjusted to account for a baseline of June 2011.

In 2008, the City and Santa Rosa entered into the Fifth Amendment to the Agreement for Use of Santa Rosa Subregional Sewerage System. The purpose of the Amendment was to: revise the cost allocation methodology to better account for each agency's contributions and future needs; allocate the cost and additional capacity provided by the Geysers Expansion Project; and agree to fund addition projects necessary to expand treatment use capacity. As a result of this amendment, the City secured some additional capacity from the Geysers Expansion Project. The amendment also provided the City, Santa Rosa and South Park County Sanitation District with more flexibility in tailoring future capacity expansion projects to their needs. As a result of this Fifth Amendment, two other adjustments are made to the baseline costs included in the Santa Rosa Study. Specifically,

- The cost of the proposed Rohnert Park Urban Reuse Project was substituted for the cost of the proposed Santa Rosa Urban Reuse Project.
- The costs of Subregional expansion projects beyond the 2012 CIP have been removed from the costs included in the fee program. Because of the Geysers Expansion Project, the ability to implement the Rohnert Park Urban Reuse Project, the change in cost allocation methods for dry weather and wet weather flow contributions and the extensive water conservation efforts the City has and will continue to undertake to comply with SBx7-7 (described in Section 5.3.2 below), the City does not believe it will need to participate in these long-term future expansion projects to secure adequate capacity for development.

Table 5-5 illustrates the original values used in the Santa Rosa Study and the adjustments made for this analysis. In general, even with adjustments to take into account the passage of time, the City's share of the Subregional System facilities is very similar.

Table 5 - 5 Adjusted Present Value of Subregional System Facilities (ENR CCI 10192.79)

		Rohnert Park Capacity Fee	Allocation	
	Santa Rosa Demand Fee Study	Analysis	Factor	Rohnert Park Share
	(June 2006 Baseline)	(June 2011 Baseline)	ractor	Rolliert Falk Silare
Depreciatated Replacement Cost of Existing Facilities	(Julie 2000 baselille)	(Julie 2011 Daseille)		
Land and Land Rights	ć 14.404.000	ć 14.404.000		
_				
Buildings		\$ 135,852,720		
Capital Improvements		\$ 146,445,600		
Equipment				
Infrastructure Assets		\$ 212,520		
Construction in Progress		\$ 60,272,000		
Subtotal Depreciated Replacement Cost of Existing Facilities		\$ 371,588,040	19.70%	
Present Value of Interest on Past Debt for Existing Facilities		\$ 293,249,260	19.70%	. , ,
Present Value of Past Debt Issuance Costs	\$ 15,307,000	\$ 18,184,627	19.70%	\$ 3,582,400
Planned Future System Improvements				
5-Year CIP through 6/30/2006	\$ 15,379,000	\$ 15,379,000	19.70%	\$ 3,029,700
5-Year CIP through 2012 - Wastewater Capital Fund	y 13,373,000	y 13,373,000	13.10/0	ψ 3,023,700
Reclamation Improvements (Land Purchase)	\$ 2,800,000	\$ 2,800,000		
Laguna WTP Upgrades Phase 2				
Electrical Upgrade	\$ 2,700,000			
West College Reclaimed Water Line		\$ 90,000		
Environmental Grant Funding				
Headworks Improvements				
Laguna WTP Headworks Pipeline Repairs		\$ 5,600,000		
Subregional Plant Energy Options	\$ 1,500,000	\$ 1,500,000		
Engine Upgrades	\$ 1,125,000	\$ 1,125,000		
Reclamation Pond Erosion	\$ 150,000	\$ 150,000		
Subtotal Capital Fund	\$ 19,843,000	\$ 19,843,000	19.70%	\$ 3,909,100
5-Year CIP through 2012 - Proposed Bond Construction				
UV Expansion	\$ 9,300,000	\$ 9,300,000	14.37%	\$ 1,336,400
West College Wet Weather		\$ 5,300,000	14.37%	
IRWP Urban Reuse		\$ -		\$ -
IRWP Discharge Relocation		\$ 91,300,000	14.37%	\$ 13,119,800
Tertiary Filtration		\$ 18,800,000	14.37%	
Power Generation Project		\$ 14,000,000	14.37%	
Long Term Dewatering			19.70%	
Subtotal Proposed Bond Construction			1011 070	\$ 20,364,600
Financing Factor Factors on Proposed Bonds (75%)				\$ 15,273,450
, , ,	, ,	\$ -		, ,
Subtotal Planned Future System Improvements (2006 CIP + 2012 Capital CIP +				
2012 Bonded CIP + Financing Factor	\$ 281,797,000	\$ 281,797,000		\$ 42,576,850
Total Depreciated Value of Existing + Planned Future System Improvements	\$ 934,457,000			\$ 177,132,150
Other Identified Projects	, , , , , , , , , , , , , , , , , , , ,	, ,		, , , ,
Rohnert Park Reuse	\$ 25,000,000	\$ 25,000,000	100.00%	\$ 25,000,000
	[.	1.		
Total	\$ 959,457,000	\$ 989,818,927		\$ 202,132,150

5.2.3 Canon Manor Project Management

The City has assisted in the development of the Canon Manor sewer project for approximately 10 years. The City tracks the administrative time associated with this work in a separate project number and has accrued costs to date of \$435,328. These costs represent the costs of providing service specifically to development in Canon Manor.

5.3 Nexus Findings for Sewer Facilities

5.3.1 Definition of Improvements

The specific facilities in the sewer facilities component are:

- The City's Eastside Trunk Sewer Project which provides capacity for all new development in the Specific Plan and Planned Development areas east of Highway 101, including new connections in the Canon Manor subdivision and some existing development east of Highway 101;
- The City's Interceptor Outfall Project which provides capacity for all development, new and existing, within the City and its Sphere of Influence, including all SPAs, all PDs, infill development and new connections in the Canon Manor subdivision.
- The Subregional System's treatment, disposal and reuse facilities which provide capacity for all development, new and existing, within the Subregional System's service area, including all SPAs, all PDs, infill development and new connections in the Canon Manor subdivision.

5.3.2 Cost Allocation Factors

For capital improvements associated with sewer capacity, costs are allocated by flow contributions to the sewer system. Flow contributions determine the ultimate size and cost of the sewer system so this method allows for a reasonable calculation of the impacts caused by various types of development.

In its 2006 Sewer Capacity Charge Analysis, the City developed flow factors based on the comprehensive work performed by the Subregional System during its IRWP Master Plan. The IRWP calculations developed flow factors for residential units and flow factors per employee in order to model nonresidential contributions to the sewer system. These flow factors were designed to model indoor water use because water used indoors is the water that ultimately flows into the sewer. While a number of peaking factors are applied to these base factors in order to appropriately size collection and treatment facilities, the base indoor water use factors provide a reasonable methodology for understanding the sewer flow impacts from various land uses.

In 2009, the California State Legislature approved and the Governor signed Senate Bill x 7-7 (SBx7-7 or the Water Conservation Act of 2009), which called for a 20% reduction in urban water use across the state by the year 2020. As a result of this legislation, the City has been working with other water purveyors in its region to develop new indoor water use factors that reflect the demand reduction that is required by law. Because of the legislation, these reduced demand levels must be achieved by new and existing development. As part of this work, the City participated with a study by Maddaus Water 0205609003

Management⁷ that reviewed historic water use patterns and existing and planned water conservation strategies in order to develop new flow factors for single family and multi-family residential units. For the purposes of projecting nonresidential flows, the per employee flow factor developed in the IRWP Master Plan has been reduced by 10%. This 10% reduction is consistent with the nonresidential conservation target established in SBx7-7.⁸ These flow factors, which are presented in Table 5-6 below, are the basis for converting land uses to sewer flow in this 2011 Analysis.

Table 5-6 – General Flow Equivalency Factors

Land Use Category	Unit	Flow Equivalency Factor per Unit (gpd)
Single Family Residential	EA	170
Multi-Family Residential	EA	111
Senior Housing	EA	111
Assisted Living	EA	111
Nonresidential Land Use	Employee	23

In addition to revising the flow factors for all development consistent with SBx7-7, the City has required specific flow rates from the proposed Sonoma Mountain Village development. Sonoma Mountain Village is unique among the SPAs and PDs because the development proposal includes redevelopment of existing industrial campus, which had purchased capacity rights within the City's system, together with the development of new land uses.

The City's General Plan, its Basis of Design Report for the Eastside Trunk Sewer and its approval documents for the Sonoma Mountain Village Planned Development limit total sewer flows from the development to 241.8 acre-feet per year or 215,850 gpd ⁹ and limit the use of the existing capacity right to the existing building footprints, which total 700,000 square feet ¹⁰.

Based on these approval documents and conditions, the total new contribution from new development within the Sonoma Mountain Village Planned Development is estimated to be 188,034 gallons per day, which is the volume of flow that the Sonoma Mountain Village Water Plan associates with development outside of the existing building footprints.

0205609003 October 2011

-

⁷ FINAL 2010 Urban Water Management Plan Water Demand Analysis and Water Conservation Measures Update, Maddaus Water Management Study

⁸ Water Code Section 10608.20(b)(2)(C)

⁹ Sonoma Mountain Village Water Plan, August 5, 2009, Table B.

¹⁰ Sonoma Mountain Village Draft Environmental Impact Report, August 2009, page 2-52.

In order to convert the current and planned land uses into sewer flows the following methodology is employed:

Sonoma Mountain Village's proposed land use pattern is allocated across existing uses with
capacity rights and new uses. This is done by subtracting the existing nonresidential square
footage from the total nonresidential square footage as illustrated in Table 5-7. The new land
uses pattern is subject to capacity charges based on the estimated flow contribution of 188,034
gallons per day.

Table 5-7 – Sonoma Mountain Village – New and Existing Allocation

		Existing	
		Land Uses	
		with	New Land Use
	Proposed	Capacity	Pattern Subject
	Final Land	Charge	to Capacity
	Use Pattern	Credits	Charges
Land Use Class			
Residential			
Single Family Residential (units)	700	ı	700
Multi-Family Residential (units)	994	1	994
Senior Housing (units)	0	1	-
Assisted Living (units)	0	1	-
Non-Residential (square feet)	813,801	(700,000)	113,801

2. Because non-residential flow contributions are allocated by employee, the new employees projected in the General Plan are allocated to each SPA, Planned Development and Infill development based on the total new non-residential square footage associated with each. This calculation is illustrated in Table 5-8.

Table 5-8 - Nonresidential Land Uses - Employee Allocations

				Percentage of						
				Square	Employees Associated with New					
Nonresidential Land Uses		Square Foota	ige	Footage	Development					
				Associated			New			
		Planned	New	with New		Planned	Developme			
	2011 Base	Buildout	Development	Development	2010 Base	Buildout	nt			
Citywide Totals	6,806,303	9,112,896	2,306,593		21,900	27,308	5,408			
NE SPA	-	-	-	0.00%			•			
UD SPA	ī	175,000	175,000	7.59%			410			
SE SPA	ī	10,000	10,000	0.43%			23			
WD SPA	i	302,114	302,114	13.10%			708			
NW SPA	i	1,200,000	1,200,000	52.02%			2,814			
Stadium Lands	ī	140,000	140,000	6.07%			328			
Sonoma Mountain Village	700,000	813,801	113,801	4.93%			267			
Subtotal SPAs and PDs	700,000	2,640,915	1,940,915	84.15%			4,551			
Infill	6,106,303	6,471,981	365,678	15.85%			857			
Totals	6,806,303	9,112,896	2,306,593	100.00%			5,408			

3. Because Sonoma Mountain Village's planned development will be managed to an agreed-upon flow cap, Sonoma Mountain Village's new land uses are subtracted from total new land uses before flow factors are applied. This calculation is illustrated in Table 5-9.

Table 5-9 – Contributing Land Uses without Sonoma Mountain Village

Land Use Class	2011 Base	Planned Buildout	New Development
Single Family Residential (units)		9,965	2,246
Multi-Family Residential (units)		11,115	
Senior Housing (units)	207	209	2
Assisted Living (units)	0	135	135
Nonresidential Employees	21,900	27,041	5,141

4. Because cost allocations will be based on flow contribution, which is indicative of infrastructure impacts, the general flow equivalency factors illustrated in Table 5-9 are applied to all land uses except Sonoma Mountain Village to create flow factors for each type of development. Sonoma Mountain Village's contribution is applied as a fixed flow contribution of 188,034 gallons per day. The percentage share for each type of land use is calculated based on flow contribution as illustrated in Table 5-10.

Table 5-10 – Flow Contribution – All Land Uses

Land Use Class		Units		Unit Flow	Flow p	er Land Us	e Class	% Share		
	Existing	New	Total		Existing	New	Total	Existing	New	Total
Single Family Residential (units)	7,719	2,246	9,965	170	1,312,230	381,820	1,694,050	35%	10%	45%
Multi-Family Residential (units)	8,594	2,521	11,115	111	953,934	279,831	1,233,765	25%	7%	33%
Senior Housing (units)	207	2	209	111	22,977	213	23,190	1%	0%	1%
Assisted Living (units)	-	135	135	111	-	14,985	14,985	0%	0%	0%
Nonresidential Employees)	21,900	5,141	27,041	23	503,700	118,247	621,947	13%	3%	16%
Sonoma Mountain Village (New)	-		-	-		188,034	188,034	0%	5%	5%
Total		_			2,792,841	983,130	3,775,971	74%	26%	100%

5. The calculation illustrated in Table 5-10 can also be performed for each SPA and planned development. Table 5-11 illustrates the breakdown in flow contributions to each SPA and planned development.

Table 5-11 - Flow Contribution by SPA and Planned Development

				F	ows by SP	A (gpd)			
Land Use Class	NE SPA	UD SPA	SE SPA	WD SPA	NW SPA	SL	So Mo	Canon Manor	Infill
	450 400	450.440	00.000					0.000	
Single Family Residential (units)		150,110	66,980	-	-	-		8,330	-
Multi-Family Residential (units)	22,200	84,582	8,991	-	99,900	37,518		1	26,640
Senior Housing (units)	-	-	-	-	-	-		-	213
Assisted Living (units)	•	•	•	•	-	-		ı	14,985
Nonresidential Employees)	•	9,437	539	16,292	64,711	7,550		ı	19,719
Sonoma Mountain Village (New)	-	-	-	-	-	-	188,034	-	
Total	178,600	244,129	76,510	16,292	164,611	45,068	188,034	8,330	61,557

6. The capacity of one facility considered in this analysis, the Eastside Trunk Sewer, is impacted mainly by the flow contributions from the eastside SPAs and PDs, particularly the Northeast, University District, Southeast and Canon Manor SPAs and the Sonoma Mountain Village PD. In order to allocate cost shares for this facility, the relative flow contributions of these developments will be used. Table 5-12 illustrates the relative flow contributions for the Eastside Trunk Sewer allocation.

Table 5-12 – Flow Contributions for Eastside Trunk Sewer

Land Use Class		Units		Unit Flow	Flow p	er Land Us	e Class	% Share		
	Existing	New	Total		Existing	New	Total	Existing	New	Total
Single Family Residential (units)	171	2,246	2,417	170	29,070	381,820	410,890	4%	53%	57%
Multi-Family Residential (units)		1,043	1,043	111		115,773	115,773	0%	16%	16%
Senior Housing (units)			-	111			-	0%	0%	0%
Assisted Living (units)			-	111			-	0%	0%	0%
Nonresidential (Employees)		434	434	23	-	9,976	9,976	0%	1%	1%
Sonoma Mountain Village (New)				-	-	188,034	188,034	0%	26%	26%
Total					29,070	695,603	724,673	4%	96%	100%

This calculation can also be performed for each contributing SPA and Planned Development as illustrated in Table 5-13.

Table 5-13 – Flow Contributions for Eastside Trunk Sewer by Contributing Development

		Flow	s by SPA (gpd)	
					Canon
Land Use Class	NE SPA	UD SPA	SE SPA	So Mo	Manor
Single Family Residential (units)	156,400	150,110	66,980		8,330
Multi-Family Residential (units)	22,200	84,582	8,991	-	-
Senior Housing (units)	-	-	-		-
Assisted Living (units)	-	-	-	-	-
Nonresidential (Employees)	-	9,437	539		-
Sonoma Mountain Village (New)	-	-	-	188,034	-
Total	178,600	244,129	76,510	188,034	8,330

5.3.3 Impact Zone Allocation

The Sewer Interceptor Outfall Project (both Phases) and the Subregional System Facilities support the collection, treatment, disposal and reuse of wastewater generated from the City and all PDs and SPAs including the Canon Manor SPA. Costs are allocated on a citywide basis.

As noted above, the Eastside Trunk Sewer has been designed to benefit primarily new development but it does include re-routing of flows from the existing collection system in order to provide capacity relief within the existing system. During the development of the design for the Eastside Trunk Sewer, the City developed a weighted-reach model that took into account the impacts of both new development and the capacity relief flows in the Eastside Trunk Sewer in a reach-by-reach basis. Table 5-14 below illustrates this weighted-reach model, which was developed prior to any Canon Manor connections. Based on this weighted-reach method, the existing users' capacity relief share in the Eastside Trunk Sewer Project is \$4,639,445.

Table 5-14 – Existing & New Development Cost Share for Eastside Trunk Sewer by Contributing Development

			Flov	w above	Flow	in Reach				Per	cent of	Percent of	Weighted Cos	t Share (Flow
Phase & Reach Description	Length	Cost	Re	ach (in	(in gpm)		Total Flow (in gpm)		Total Flow		Length	% x Length	n % x Cost)	
			New	Existing	New	Existing	Total	New	Existing	New	Existing		New	Existing
2a Snyder from East Cotati to Southwest	1,500	\$ 1,150,329	0	0	2150	294	2444	2150	294	88%	12%	10%	\$ 2,137,717	\$ 292,320
2 Southwest from Snyder to C section tie-in	2,899	\$ 3,597,838	2150	294	3860	0	6304	6010	294	95%	5%	18%	\$ 4,477,423	\$ 219,029
2 Southwest from C Section tie-in to Commerce	5,672	\$ 7,039,302	6010	294	0	384	6688	6010	678	90%	10%	36%	\$ 8,257,262	\$ 931,518
1 Commerce to Pump Station	5,700	\$ 13,761,943	6010	678	0	2504	9192	6010	3182	65%	35%	36%	\$ 6,037,553	\$3,196,588
Total Cost without Financing	15.771	\$ 25,549,411											\$ 20,909,956	\$ 4.639.455

The costs of the Eastside Trunk Sewer are allocated as described below.

• For Phase 1 the total cost of the project was \$13,761,943. The City made a cash contribution of \$3,706,219 and financed the remaining \$10,055,724. The cash contribution is credited against the total capacity relief share (City Share) for all Phases. Crediting \$3,706,219 towards the \$4,639,455 capacity relief share leaves a remaining capacity relief share of \$933,236 or 9.3% of the financed costs. Therefore, 9.3% of principal and interest are the "capacity relief share" and are subtracted from the principal and interest cost of the project before allocations are made to new development. The remaining 90.7% of the principal and interest are allocated to the new eastside development including the Northeast, University District, Southeast and Canon Manor SPAs and the Sonoma Mountain Village PD. This allocation is illustrated in Table 5-15 below.

Table 5-15 - Eastside Trunk Sewer Phase 1 - Allocation of Principal and Interest

	Total	Capacity Relief	New Development Share
		Share (9.3%)	(90.7%)
Principal	\$10,055,724	\$933,236	\$9,122,488
Interest	\$7,843,392	\$729,435	\$7,113,957
Total	\$17,899,116	\$1,662,701	\$16,236,415

- Phase 2 of the Eastside Trunk Sewer includes a "main reach" along Avram Avenue, Santa Alicia Drive, Seed Farm Drive and Southwest Boulevard that provides service to all eastside SPAs and PDs, including the Canon Manor SPA. Project costs for the main reach are allocated to planned eastside development. Phase 2a or the "south reach" provides service to the Southeast and Canon Manor SPAs and the Sonoma Mountain Village PD. Project costs for the southern reach are allocated only to these new developments.
- Phase 3 is a "northern reach" that provides service to the University District and Northeast SPAs.
 Project costs for the northern reach are allocated only to these new developments.

5.3.4 Fee Component Calculations

Eastside Trunk Sewer Phase 1: The new development share of the Eastside Trunk Sewer Phase 1, which is calculated in Table 5-15 is allocated to the Northeast, University District, Southeast and Canon Manor SPAs and the Sonoma Mountain Village. Table 5-16 presents the fee component calculation for the Eastside Trunk Sewer Project Phase 1. Because development in Canon Manor SPA has been paying fees to account for its share of the City's sewer facilities, the City has an available fund balances in its PF Fee and Sewer Capacity Charge Funds to offset the "existing users" share that appear in these calculations.

Table 5-16 PF Fee Component for Eastside Trunk Sewer Phase 1

Total Cost: \$ 16,236,415

\$ 15,585,097 New Development Share (allows for Canon Manor development)

> Cost per Gallon \$22.41

Land Use Class	` '			Flow per Unit in gallons (2)	in gallons i			Percent Share		Cost	Cost Per Land Use Unit (3)	
	Existing	New	Total		Existing	New	Total	Existing	New	Existing	New	New
Single Family Residential (units)	171	2,246	2,417	170	29,070	381,820	410,890	4.01%	52.69%	\$ 651,318	\$ 8,554,736	\$ 3,809
Multi-Family Residential (units)	0	1,043	1,043	111	0	115,773	115,773	0.00%	15.98%	\$ -	\$ 2,593,912	\$ 2,487
Senior Housing (units)	0	0	0	111	0	0	0	0.00%	0.00%	\$ -	\$ -	\$ 2,487
Assisted Living (units)	0	0	0	111	0	0	0	0.00%	0.00%	\$ -	\$ -	\$ 2,487
Nonresidential Land Use Employees (less SMV)	0	434	434	23	0	9,976	9,976	0.00%	1.38%	\$ -	\$ 223,518	\$ 22
SMV Flows	0	0	0	0	0	188,034	188,034	0.00%	25.95%	\$ -	\$ 4,212,931	\$ 22
										_		
Total					29,070	695,603	724,673	4.01%	95.99%	\$ 651,318	\$ 15,585,097	

- (1) "Existing" units are existing homes in Canon Manor
- (2) Units are from Maddaus
- (3) Cost per Unit is Total Cost/Total Units

Eastside Trunk Sewer Phase 2 Main Reach: The total estimated cost the Eastside Trunk Sewer Phase 2 Main Reach is \$10,637,139. There is an existing users share associated with development in Canon Manor that has already paid fees. Table 5-17 presents the fee component calculation for the Eastside Trunk Sewer Project Main Reach.

Table 5-17 PF Fee Component for Eastside Trunk Sewer Phase 2 Main Reach

Total Cost: \$ 10,637,139

New Development Share (allows for Canon Manor development) \$ 10,210,435

\$14.68

Cost per Gallon

												(1)
Land Use Class	U	Units (1) L			Total Flow per Land Use Class in gallons			Percen	t Share	Cos	Cost Per Land Use Unit (3)	
	Existing	New	Total		Existing	New	Total	Existing	New	Existing	New	New
Single Family Residential (units)	171	2,246	2,417	170	29,070	381,820	410,890	4.01%	52.69%	\$ 426,705	\$ 5,604,557	\$ 2,495
Multi-Family Residential (units)	0	1,043	1,043	111	0	115,773	115,773	0.00%	15.98%	\$	\$ 1,699,378	\$ 1,629
Senior Housing (units)	0	0	0	111	0	0	0	0.00%	0.00%	\$	\$ -	\$ 1,629
Assisted Living (units)	0	0	0	111	0	0	0	0.00%	0.00%	\$ -	\$ -	\$ 1,629
Nonresidential Land Use Employees (less SMV)	0	434	434	23	0	9,976	9,976	0.00%	1.38%	\$	\$ 146,436	\$ 15
SMV Flows	0	0	0	0	0	188,034	188,034	0.00%	25.95%	\$ -	\$ 2,760,063	\$ 15
Total					29,070	695,603	724,673	4.01%	95.99%	\$ 426,70	\$ 10,210,435	

- (1) "Existing" units are existing homes in Canon Manor
- (2) Units are from Maddaus
- (3) Cost per Unit is Total Cost/Total Units

Eastside Trunk Sewer Phase 2a (South Reach): The total estimated cost the Eastside Trunk Sewer Phase 2a is \$1,150,329. There is an existing users share associated with new development in Canon Manor that has already paid fees. Table 5-18 presents the fee component calculation for the Eastside Trunk Sewer Project Phase 2a.

Table 5-18 PF Fee Component for Eastside Trunk Sewer Phase 2a (South Reach)

Total Cost: \$ 1,150,329

New Development Share (allows for Canon Manor development)

\$ 1,039,579

Cost per Gallon

\$3.81

(1)

Land Use Class	Units (1)			Flow per Unit in gallons (2)	Total Flow	per Land in gallons	Use Class	Percen	t Share	Cost	Share	Cost Per Land Use Unit (3)
	Existing	New	Total		Existing	New	Total	Existing	New	Existing	New	New
Single Family Residential (units)	171	443	614	170	29,070	75,310	104,380	9.63%	24.94%	\$110,749	\$ 286,911	\$ 648
Multi-Family Residential (units)	0	81	81	111	0	8,991	8,991	0.00%	2.98%	\$ -	\$ 34,253	\$ 423
Senior Housing (units)	0	0	0	111	0	0	0	0.00%	0.00%	\$ -	\$ -	\$ 423
Assisted Living (units)	0	0	0	111	0	0	0	0.00%	0.00%	\$ -	\$ -	\$ 423
Nonresidential Land Use Employees (less SMV)	0	23	23	23	0	539	539	0.00%	0.18%	\$	\$ 2,054	\$ 4
SMV Flows	0	0	0	0	0	188,034	188,034	0.00%	62.27%	\$	\$ 716,360	
Total					29,070	272,874	301,944	9.63%	90.37%	\$ 110,749	\$1,039,579	

Notes:

Notes:

(1) "Existing" units are existing homes in Canon Manor

- (2) Units are from Maddaus
- (3) Cost per Unit is Total Cost/Total Units

Eastside Trunk Sewer Phase 3 (North Reach): The total estimated cost of the Eastside Trunk Sewer Phase 3 is \$2,805,235. Table 5-19 presents the fee component calculation for the Eastside Trunk Sewer Project Phase 3.

Table 5-19 PF Fee Component for Eastside Trunk Sewer Phase 3

Total Cost: \$ 2,805,235

New Development Share: \$ 2,805,235

Cost per Gallon \$6.79

Land Use Class	Units (1)		Flow per Unit in gallons (2)	Total Flow per Land Use Class in gallons			Percen	t Share	Cos	et Share	Cost Per Land Use Unit (3)	
	Existing	New	Total		Existing	New	Total	Existing	New	Existing	New	New
Single Family Residential (units)	0	1,803	1,803	170	0	306,510	306,510	0.00%	74.16%	\$ -	\$ 2,080,448	\$ 1,154
Multi-Family Residential (units)	0	962	962	111	0	106,782	106,782	0.00%	25.84%	\$ -	\$ 724,787	\$ 753
Senior Housing (units)	0	0	0	111	0	0	0	0.00%	0.00%	\$ -	\$ -	\$ 753
Assisted Living (units)	0	0	0	111	0	0	0	0.00%	0.00%	\$ -	\$ -	\$ 753
Nonresidential Land Use Employees (less SMV)	0	0	0	23	0	0	0	0.00%	0.00%	\$ -	\$ -	\$ 7
SMV Flows	0	0	0	0	0	0	0	0.00%	0.00%	\$ -	\$ -	
Total					0	413,292	413,292	0.00%	100.00%	\$ -	\$ 2,805,235	

Notes

(1) "Existing" units are existing homes in Canon Manor

(2) Units are from Maddaus

(3) Cost per Unit is Total Cost/Total Units

Sewer Interceptor Outfall Project: The Sewer Interceptor Outfall Project will also be constructed in two phases both of which are designed to serve all development, new and existing in the City.

The first phase of the project has been designed, constructed and financed through Certificates of Participation at a total cost of \$23,132,623 including the costs of interest. The City allocated 30.3% of the costs to new development and 69.7% of the costs to existing development based on the best estimates of flow contribution at the time. Because design, construction and bonding are all complete, this ratio between new and existing development's share is retained. Table 5-20 below presents the fee component calculation for the Interceptor Outfall Project Phase 1, with the initial allocation retained. The allocated cost is for new development only.

Table 5-20 - PF Fee Component for the Interceptor Outfall Project Phase 1

Total Cost: \$23,132,623

New Development Share: \$ 7,009,185

Cost per gallon: \$7.13

Land Use Class	Units		Flow per Unit in gallons (2)	Total Flow per Land Use Class			Percen	t Share	Cost S	Cost Per Land Use Unit (3)		
	Existing	New	Total		Existing	New	Total	Existing	New	Existing	New	New
Single Family Residential (units)	0	2,246	2,246	170	0	381,820	381,820	0.00%	38.84%	\$ -	\$ 2,722,169	\$ 1,212
Multi-Family Residential (units)	0	2,521	2,521	111	0	279,831	279,831	0.00%	28.46%	\$ -	\$ 1,995,043	\$ 791
Senior Housing (units)	0	2	2	111	0	213	213	0.00%	0.02%	\$ -	\$ 1,519	\$ 791
Assisted Living (units)	0	135	135	111	0	14,985	14,985	0.00%	1.52%	\$ -	\$ 106,835	\$ 791
Nonresidential Land Use Employees (less SMV)	0	5,141	5,141	23	0	118,247	118,247	0.00%	12.03%	\$ -	\$ 843,038	\$ 7
SMV Flows						188,034	188,034	0.00%	19.13%	\$ -	\$ 1,340,580	\$ 7
Total					0	983,130	983,130	0.00%	100.00%	0	7,009,184	

Notes:

(1) Cost per Unit is Total Cost/Total Units

(2) Units are from Maddaus

Since the construction of Phase 1 of the Interceptor Outfall Project, the City has revised overall flow projections to comply with the water conservation mandates described earlier in this section. This has resulted in a slight decrease in the anticipated flow from planned development. Because Phase 2 of the Interceptor Outfall Project is not yet complete, the revised, slightly lower flow contributions are used to calculate new development's share as illustrated in Table 5-21 below.

Table 5-21 – PF Fee Component for the Interceptor Outfall Project Phase 2

Total Cost: \$ 6,681,263

New Development Share: \$ 1,739,566

Cost per gallon: \$1.77

(1)

Land Use Class		Units			Total Flow per Land Use Class in gallons			Percen	t Share	Cost S	Cost Per Land Use Unit (3)	
	Existing	New	Total		Existing	New	Total	Existing	New	Existing	New	New
Single Family Residential (units)	7,719	2,246	9,965	170	1,312,230	381,820	1,694,050	34.75%	10.11%	\$ 2,321,881	\$ 675,598	\$ 301
Multi-Family Residential (units)	8,594	2,521	11,115	111	953,934	279,831	1,233,765	25.26%	7.41%	\$ 1,687,906	\$ 495,137	\$ 196
Senior Housing (units)	207	2	209	111	22,977	213	23,190	0.61%	0.01%	\$ 40,656	\$ 377	\$ 196
Assisted Living (units)	0	135	135	111	0	14,985	14,985	0.00%	0.40%	\$ -	\$ 26,515	\$ 196
Nonresidential Land Use Employees (less SMV)	21,900	5,141	27,041	23	503,700	118,247	621,947	13.34%	3.13%	\$ 891,255	\$ 209,229	\$ 2
SMV Flows				•	0	188,034	188,034	0.00%	4.98%	\$ -	\$ 332,710	\$ 2
Total					2,792,841	983,130	3,775,971	73.96%	26.04%	\$ 4,941,698	\$ 1,739,566	·

Notes:

Subregional System Facilities: As described above, the Subregional System's infrastructure has been planned, designed and constructed to serve existing and planned development in the City and Canon Manor. Therefore, the fee component contribution is calculated using all flow contributions. Table 5-22 below presents this calculation.

Table 5-22 – PF Fee Component for the Subregional System

Total Cost: \$ 202,132,150

New Development Share: \$ 52,628,114

Cost per Gallon: \$53.53

(1)

Land Use Class	Units			Flow per Unit in gallons (2)	Total Flow	/ per Land in gallons	Use Class	Percent	t Share	Cost S	Cost Per Land Use Unit (3)	
	Existing	New	Total		Existing	New	Total	Existing	New	Existing	New	New
Single Family Residential (units)	7,719	2,246	9,965	170	1,312,230	381,820	1,694,050	34.75%	10.11%	\$ 70,245,203	\$ 20,439,270	\$ 9,100
Multi-Family Residential (units)	8,594	2,521	11,115	111	953,934	279,831	1,233,765	25.26%	7.41%	\$ 51,065,200	\$ 14,979,680	\$ 5,942
Senior Housing (units)	207	2	209	111	22,977	213	23,190	0.61%	0.01%	\$ 1,229,986	\$ 11,409	\$ 5,942
Assisted Living (units)	0	135	135	111	0	14,985	14,985	0.00%	0.40%	\$ -	\$ 802,165	\$ 5,942
Nonresidential Land Use Employees (less SMV)	21,900	5,141	27,041	23	503,700	118,247	621,947	13.34%	3.13%	\$ 26,963,649	\$ 6,329,912	\$ 54
SMV Flows						188,034	188,034	0.00%	4.98%	\$ -	\$ 10,065,679	\$ 54
Total					2,792,841	983,130	3,775,971	73.96%	26.04%	149,504,038	52,628,114	

Notes:

⁽¹⁾ Cost per Unit is Total Cost/Total Units

⁽²⁾ Units are from Maddaus

⁽¹⁾ Cost per Unit is Total Cost/Total Units

⁽²⁾ Units are from Maddaus

Canon Manor Project Management: As described above the City has incurred unique project management costs associated with the Canon Manor sewer project. These costs are above and beyond the costs associated with the PF Fee or Sewer Capacity Charge Projects in general. The costs were incurred to develop the project which benefits all property in Canon Manor, including property that is currently connected to the City's sewer system (existing users) and property that can still develop and connect to the system. Table 5-23 presents the PF Fee component for Canon Manor Project Management which is allocated by flow contribution to all development in Canon Manor.

Table 5-23 – PF Fee Component for Canon Manor Project Management

Total Cost: \$ 435,328

New Development Share: \$ 96,959

Cost per gallon: \$11.64

Land Use Class	Units			Flow per Unit in gallons (2)	Total Flow	per Land in gallons	Use Class	Percent	t Share	Cost S	Cost Per Land Use Unit (3)	
	Existing	ng New Total			Existing	New	Total	Existing	New	Existing	New	New
Single Family Residential (units)	171	49	220	170	29,070	8,330	37,400	77.73%	22.27%	\$ 338,369	\$ 96,959	\$ 1,979
Multi-Family Residential (units)	0	0	0	111	0	0	0	0.00%	0.00%	\$ -	\$ -	\$ 1,292
Senior Housing (units)	0	0	0	111	0	0	0	0.00%	0.00%	\$ -	\$ -	\$ 1,292
Assisted Living (units)	0	0	0	111	0	0	0	0.00%	0.00%	\$ -	\$ -	\$ 1,292
Nonresidential Land Use Employees (less SMV)	0	0	0	23	0	0	0	0.00%	0.00%	\$ -	\$ -	\$ 12
Total					29,070	8,330	37,400	77.73%	22.27%	338,369	96,959	

Notes:

5.3.5 Nexus Findings for Sewer Improvements

Purpose of Fee Component: The purpose of the sewer fee component is to provide wastewater collection, treatment, disposal and reuse capacity. The elements include the Eastside Trunk Sewer, including financing costs for Phase 1, the Interceptor Outfall Project, including financing costs for Phase 1, buy-in the Subregional System facilities and Canon Manor Project Management, including planned facilities that provide capacity.

Use of Fee: Revenue from fees will be used to fund the design and construction and financing costs of the Eastside Trunk Sewer, the Interceptor Outfall Project, Subregional System facilities and manage the implementation of the Canon Manor Project.

Relationship between Use of Fee and Type of Development: Each type of development's impact on the sewer system is measured by its indoor water use rate. Additional indoor water use contributes flow to the sewer system and requires that capacity be added if the levels of service outlined in the General Plan are to be maintained.

⁽¹⁾ Cost per Unit is Total Cost/Total Units

⁽²⁾ Units are from Maddaus

Relationship between Need for Improvements and Type of Development: The development of new and infill residential and non-residential land uses will generate flow. The capacity of the City's sewer system will need to be increased to maintain the level of service goals outlined in the General Plan. The fees will be used to expand capacity to meet the level of goals established in the General Plan.

Relationship Between Amount of Fee Component and Cost or Portion of Facility Attributed to Development Upon Which Fee Component is Imposed: The sewer facility costs are apportioned between new and existing development as follows:

- For Eastside Trunk Sewer Phase 1: Existing developments' share is subtracted from the total cost
 of construction and financing. The remaining construction and financing costs are allocated to
 the Northeast, University District, Southeast and Canon Manor SPAs and the Sonoma Mountain
 Village PD based on their respective flow contribution to the sewer because these developments
 contribute flow to the sewer.
- For Eastside Trunk Sewer Phase 2 (Main Reach): The estimated cost of construction is allocated to the Northeast, University District, Southeast and Canon Manor SPAs and the Sonoma Mountain Village PD based on their respective flow contribution to the sewer because these developments contribute flow to the sewer.
- For Eastside Trunk Sewer Phase 2a (South Reach): The estimated cost of construction is allocated
 to the Southeast and Canon Manor SPAs and the Sonoma Mountain Village PD based on their
 respective flow contribution to the sewer because these developments contribute flow to the
 sewer.
- For Eastside Trunk Sewer Phase 3 (North Reach): The estimated cost of construction is allocated to the Northeast and University District SPAs based on their respective flow contribution to the sewer because these developments contribute flow to the sewer.
- For the Interceptor Outfall Project: The cost of construction including financing for Phase 1 is allocated to all development (new and existing) based on their respective flow contribution at the time the project was constructed, because all development contributes flow to the sewer.
 The estimated cost of construction for Phase 2 is allocated to all development (new and existing) based on their current planned flow contribution to the sewer because all development contributes flow to the sewer.
- For the Subregional System: The estimated Future Buy-In cost for all facilities, including financing
 is allocated to all development (new and existing) based on their respective flow contribution. All
 development contributes flow to the Subregional System.
- For Canon Manor Project Management: The actual cost of project management services
 provided is allocated to all development (new and existing) based on their respective flow
 contribution in the Canon Manor SPA.

This page intentionally left blank

6 Water System Facilities

6.1 Introduction

This chapter and the accompanying Appendix B provide narrative description, graphical representation and cost estimates for the proposed water system facilities as they are currently understood. Because some of the proposed facilities are still the subject of review under CEQA, the descriptions and illustrations included in this 2011 Update are intended to present the basis of the cost estimates, not to commit the City to a particular construction strategy.

6.2 Water System Facilities Description

Water system improvements include approximately 1.6 miles of transmission system pipeline from eight to sixteen inches in diameter and pressure regulating stations on the eastside of the City and pipeline upgrades that improve pressure within the westside of the City as identified in the City's CIP. Figure 6-1 illustrates the proposed improvements. Table 6-1 includes estimates for the proposed facilities. Appendix B provides detailed cost estimates.

Table 6-1 – Water System Improvements and Costs (ENR CCI 10192.79)

						Ch	nange 2006 to
Wat	er System Improvements	200	6 Total Cost	201	.0 Total Costs		2010
	Westside Water System Improvements	\$	87,500	\$	157,325	\$	69,825
	Eastside Transmission Main	\$	2,235,300	\$	2,299,700	\$	64,400
	Total Water System Facilities	\$	2,322,800	\$	2,457,025	\$	134,225

The water system improvements are all intended to provide adequate service for new development. While new development will place day-to-day demands on the water system, the primary design factor that contributes the need for and sizing of the improvements is fire flow. All new development proposals, including the SPAs and the PDs are of a scale and density that requires a design fire flow of 3,000 gallons per minute (GPM). The water system improvements are intended to allow the whole water system to deliver this flow rate to new development in order to provide that development with water supply and fire flows.

6.3 Nexus Findings for Water Facilities

6.3.1 Definition of Improvements

The water system improvements include the Westside Water System Improvements and the Eastside Transmission Main.

- 10:41am

6.3.2 Cost Allocation Factors

As noted above, the water system improvements are designed to provide all new development with adequate fire protection. Essentially each new person, whether a resident or a worker, is provided with the same level of fire protection by the system. Because of this, the Common Use Factors (CUFs) that were developed in Chapter 4 to reflect the impacts of population are used to allocate the cost of water system improvements. These CUFs are used to create an equivalency relationship between the various land use types in the City. Table 6-2 presents the CUFs that are used in the PF Program.

For the purposes of this 2011 Update, residential land uses are classified according to the City's Municipal Code. Specifically:

- "Single Family Residential" means any use meeting the definition of "dwelling, single-family detached" in Chapter 17.04 of the Municipal Code.
- "Multi-Family Residential" means any use meeting the definition of "dwelling, single-family attached", "dwelling, multi-family" or "mobile home" in Chapter 17.04 of the Municipal Code.

Table 6-2 Common Use Factors for Residential Land Uses

Land Use	CUF	Unit
Single Family Residential	3.20	Dwelling Unit
Multi-Family Residential	2.00	Dwelling Unit
Senior Housing	2.00	Dwelling Unit
Assisted Living Facility	1.00	Dwelling Unit
Office	2.86	1,000 square feet
Hotel	1.05	1,000 square feet
Retail	1.82	1,000 square feet
Industrial-Light	0.66	1,000 square feet
Industrial-Heavy	0.66	1,000 square feet
Warehouse	0.66	1,000 square feet

6.3.3 Impact Zone Allocation

The water system facilities are allocated to impact zones. The areas west of Highway 101 support the construction of transmission system improvements that improve water pressures in that area. The areas east of Highway 101 support the construction of the eastside transmission system improvements.

6.3.4 Fee Component Calculations

The estimated cost for water system improvements in the Finance Plan is \$2,457,025. Tables 6-3 and 6-4 outline the allocation of estimated costs to each land use. The resulting fee per land use is shown per dwelling unit for residential land uses and per acre for non-residential land uses.

<u>Westside Water System Improvements:</u> This cost is allocated to all new development west of Highway 101 because it will address the needs of new development.

<u>Eastside Transmission Main:</u> This cost is allocated to all new development east of Highway 101 because it will address the needs of new development.

Table 6-3 - PF Fee Component for Westside Water System Improvements

Total Cost:	\$	157,325
New Development Share	\$	157,325
Cost per CUF	\$	29.66
		(1)

Land Use Class	ι	Jnits		CUF	Total Co	ommor actors	n Use	Se Percent Share Cost Share					re	Cost Pe Land Use Class		
			Existing	New	Total	Existing New		Existing		New			(3) lew			
Single Family Residential (units)		0	0	3.20	0	0	0	0.00%	0.00%	\$	-	\$		\$	95	
Multi-Family Residential (units)		1,238	1,238	2.00	0	2,476	2,476	0.00%	46.67%	\$	-	\$	73,429	\$	59	
Senior Housing (units)		0	0	2.00	0	0	0	0.00%	0.00%	\$	-	\$	-	\$	59	
Assisted Living (units)		0	0	1.00	0	0	0	0.00%	0.00%	\$	-	\$	-	\$	30	
General Office (tsf)		230	230	2.86	0	658	658	0.00%	12.40%	\$	-	\$	19,508	\$	85	
Hotel/Motel (tsf)		0	0	1.05	0	0	0	0.00%	0.00%	\$	-	\$	-	\$	31	
Retail (tsf)		992	992	1.82	0	1,805	1,805	0.00%	34.03%	\$	-	\$	53,537	\$	54	
Light Industrial (tsf)		554	554	0.66	0	366	366	0.00%	6.90%	\$	-	\$	10,851	\$	20	
Heavy Industrial (tsf)		0	0	0.66	0	0	0	0.00%	0.00%	\$	-	\$	-	\$	20	
Warehouse (tsf)		0	0	0.66	0	0	0	0.00%	0.00%	\$	•	\$		\$	20	
Total					0	5,305	5,305	0.00%	100.00%	\$	-	\$	157,325			

Notes:

(1) Cost per Common Use Factor is Total Cost/Total Common Use Factors

- (2) Common Use Factor is people/land use unit
- (3) Cost per Land Use Unit is Cost per Common Use Factor x Common Use Factor for the Land Use

Table 6-4 - PF Fee Component for Eastside Transmission Main

Total Cost: \$ 2,299,700

New Development Share: \$ 2,299,700

Cost per CUF: \$140.40

(1)

Land Use Class		Units		CUF (2)		Common Factors	Use	Percen	t Share	Co	Cost Share		Per Use (3)
	Existing				Existing	New	Total	Existing	New	Existing	New	Ne	w
Single Family Residential (units)	0	2,897	2,897	3.20	0	9,270	9,270	0.00%	56.60%	\$ -	\$ 1,301,585	\$	449
Multi-Family Residential (units)	0	2,227	2,227	2.00	0	4,454	4,454	0.00%	27.19%	\$ -	\$ 625,352	\$	281
Senior Housing (units)	0	2	2	2.00	0	4	4	0.00%	0.02%	\$ -	\$ 539	\$	281
Assisted Living (units)	0	135	135	1.00	0	135	135	0.00%	0.82%	\$ -	\$ 18,954	\$	140
General Office (tsf)	0	507	507	2.86	0	1,450	1,450	0.00%	8.85%	\$ -	\$ 203,526	\$	402
Hotel/Motel (tsf)	0	126	126	1.05	0	132	132	0.00%	0.81%	\$ -	\$ 18,575	\$	147
Retail (tsf)	0	501	501	1.82	0	911	911	0.00%	5.56%	\$ -	\$ 127,921	\$	256
Light Industrial (tsf)	0	35	35	0.66	0	23	23	0.00%	0.14%	\$ -	\$ 3,249	\$	93
Heavy Industrial (tsf)	0	0	0	0.66	0	0	0	0.00%	0.00%	\$ -	\$ -	\$	93
Warehouse (tsf)	0	0	0	0.66	0	0	0	0.00%	0.00%	\$ -	\$ -	\$	93
Total					0	16,379	16,379	0.00%	100.00%	\$ -	\$ 2,299,700		

Notes:

- (1) Cost per Common Use Factor is Total Cost/Total Common Use Factors
- (2) Common Use Factor is people/land use unit
- (3) Cost per Land Use Unit is Cost per Common Use Factor x Common Use Factor for the Land Use

6.3.5 Nexus Findings for Water System Improvements

Purpose of Fee Components: The water system fee component funds extensions to the water system on the east and west side of the City.

Use of Fee: Revenue from fees will be used to design and construct improvements to the eastside transmission main and the westside system improvements.

Relationship between Use of Fee and Type of Development: The development of new and infill residential and non-residential land uses will result in increased population in the City. This increased population will consist of new residents, workers and visitors. This new population will require water service. The City will use fee revenue to fund the expansion of its water system to provide services to new residents, workers and visitors.

Relationship between Need for Improvements and the Type of Development: Each type of new development's impact on the water system is measured by its CUF. The CUF allows the relative impact of residential and non-residential land uses to be modeled so that each development type's impact on each proposed improvement is can be calculated.

Relationship between Amount of Fee and Cost of or Portion of Facility Attributed to Development Upon Which Fee is Imposed: CUFs are used to measure the relative benefit of water system improvements and to attribute cost shares to benefiting populations. Population based fees are calculated using the following steps:

- The cost of each improvement is allocated either citywide or to impact zones, as appropriate.
- Costs are then allocated between new and existing development (either within the Impact Zone
 or citywide) based on the total population equivalency of new development and existing
 development.
- New developments' share of costs is then allocated to each land use class based on the population equivalency of that class in order to arrive at the fee component. The formula for allocation is illustrated below.

Fee Component per New = Total New Development x CUF per Land Use Class/Total CUFS

Land Use Class Share of Improvement for New Development

For each Population Based Fee Component, the allocation to Impact Zones and the allocation between new and existing development is described below. The allocation among new development land use classes consistently follows the formula outlined above.

<u>Westside Water System Improvements:</u> This cost is allocated to all new development west of Highway 101 because it will address the needs of new development.

<u>Eastside Transmission Main:</u> This cost is allocated to all new development east of Highway 101 because it will address the needs of new development.

7 Drainage Improvements

7.1 Introduction

This chapter and the accompanying Appendix B provide narrative description, graphical representation and cost estimates for the proposed drainage improvements as they are currently understood. Because some of the proposed facilities are still the subject of review under CEQA, the descriptions and illustrations included in this 2011 Update are intended to present the basis of the cost estimates, not to commit the City to a particular construction strategy.

7.2 Drainage Facilities Description

In 2007 the City completed a master plan and modeling studies of its storm drainage facilities. These facilities include the City's storm drain pipes and its creek and channel system. The Copeland and Hinebaugh Flood Control Channels run east-west through the City and provide the backbone system for conveying stormwater from the City to the Laguna de Santa Rosa west of the City. The City's storm drainage studies indicate that the current drainage system is generally adequate for existing development. The City recently constructed improvements at Martin Avenue and pipeline improvements in G section to mitigate current deficiencies in the system. However, the analysis also indicates that flow from new development will result in the need for more capacity in the drainage system. Two new upstream detention basins on the Copeland and Hinebaugh Creek systems are recommended to reduce peak flow throughout the City's drainage system and provide capacity for new development. These facilities, which were not included in the 2006 Update, have been added as a result of the storm drainage studies. Table 7-1 presents summary cost estimates and detailed estimates are in Appendix B. The City has been working the University District developer to site the Copeland Creek detention basin. The Northeast basin has been sized conceptually but has not yet been located.

Table7-1 - Drainage Improvements and Costs (ENR CCI 10192.79)

						Cha	nge 2006 to
Draii	nage System Improvements	2006 T	otal Cost	2010	Total Costs		2010
	Copeland Detention Basin	\$	-	\$	2,470,731	\$	2,470,731
	Northeast Detention Basin	\$	-	\$	3,897,600	\$	3,897,600
	Total Drainage System Improvements	\$		\$	6,368,331	\$	6,368,331

7.3 Nexus Findings for Drainage Improvements

7.3.1 Definition of Facilities Included

The drainage improvements include the Copeland and Northeast Detention Basins that the City's storm drainage model studies indicate are necessary to mitigate the impacts of planned development.

7.3.2 Cost Allocation Factors

Each planned development's share of the detention basins is calculated by reviewing the total impervious area within the proposed development and the system into which it drains. Within each planned development area, costs are allocated to each land use category based on the percent of acreage dedicated to that land use and the total units planned to be constructed. Based on this review, the costs of the Northeast Detention Basin are allocated to the Northeast, Northwest, and Wilfred Dowdell SPAs and the Stadium Lands PD and the costs of the Copeland Detention Basin are allocated to the University District SPA. The Southeast SPA and Sonoma Mountain Village PD will provide on-site detention to mitigate 100-year storm peak flows. These developments also drain into a separate drainage channel than the remaining SPAs. The impervious area factors are outlined Table 7-2.

Table7-2 – Impervious Area Factors

Development Area	Northeast SPA	University District SPA	Northwest SPA	Wilfred Dowdell SPA	Stadium Lands PD
Total Area (ac)	215.70	297.00	170.00	24.77	30.00
Parks/Open Space (ac)	54.36	77.80	6.00	0.00	1.00
Impervious Area (ac)	161.34	219.20	164.00	24.77	29.00

7.3.3 Impact Zone Calculations

The proposed drainage basins support development that directs stormwater runoff to the Copeland and Hinebaugh Creek drainage systems. As described above, the costs of the Northeast Detention Basin are allocated to the Northeast, Northwest, and Wilfred Dowdell SPAs and the Stadium Lands PD and the costs of the Copeland Detention Basin are allocated to the University District SPA. The Southeast SPA and Sonoma Mountain Village PD detain their stormwater and do not contribute to these drainage systems. Therefore, costs are allocated to all areas of the City except the Southeast SPA and Sonoma Mountain Village PD.

7.3.4 Fee Component Calculations

The estimated cost for storm drainage facilities in the 2011 Update is \$ 6,368,331. Tables 7-3, and 7-4 outline the allocation of new development's cost to each category of land use. The resulting fee per land use category is shown per dwelling unit for residential land uses and per disturbed thousand square feet for non-residential land uses.

Table 7-3 – Drainage Fee Component for Northeast Detention Basin

Total Cost: \$3,897,600

Cost per Impervious Acre \$10,281

Development Area

							Wilfred Dowdell			Ctadium I anda			
	Nort	heas	t	Nor	thwest		Wilfred Dowdell			Stadium Lands			
Total Area (acre)	215.7			170			24.77			30			
Parks/Open Space (acre)	54.36			6						1			
Impervious Area (acre)	161.34			164			24.77			29			
SPA Share (acre)	\$1,658,700			\$1,686,100			\$254,700			\$298,100			
	acres	unit	fee	acres	unit	fee	acres	unit	fee	acres	unit	fee	
Single Family Residential (unit)	153	920	\$1,710										
Multi-Family Residential (unit)	8.3	200	\$427	30	900	\$343				13.6	338	\$414	
Senior Housing (unit)													
Assisted Living (unit)													
Non-residential (distrubed tsf)				134	5837	\$236	24.77	1079	\$236	15.4	671	\$236	

Table 7-4 – Drainage Fee Component for Copeland Detention Basin

Total Cost: \$2,470,731
Cost per Impervious Acre \$11,272

Development Area

Development Area	Ī								
	University District								
Total Area (acre)	297								
Parks/Open Space (acre)	77.8								
Impervious Area (acre)	219.2								
SPA Share (acre)	\$11,272								
	acres	unit	fee						
Single Family Residential (unit)	164.2	883	\$2,096						
Multi-Family Residential (unit)	35	762	\$518						
Senior Housing (unit)									
Assisted Living (unit)									
Non-residential (disturbed tsf)	20	871	\$259						

7.3.5 Nexus Findings for Drainage Improvements

Purpose of Fee Component: This fee component funds two regional detention basins designed to assure there is adequate capacity in the drainage system to support planned growth.

Use of Fee: Revenue from fees will be used to design and construct the planned regional detention basins on the Copeland and Northeast drainage systems.

Relationship between Use of Fee and Type of Development: The development of new residential and non-residential land uses will result in an increase in impervious area and runoff into the City's drainage system. The storm drainage master plan indicates that the existing system does not have 0205609003

October 2011

enough capacity for all planned development. The proposed detention basins will reduce peak flows into the drainage system providing capacity for development. Because of the City's development pattern, infill development, with the exception of the two large planned developments at Stadium Lands and Sonoma Mountain Village, does not contribute to an increase in impervious area. These projects are developed within existing impervious area often devoted to parking lots.

Relationship between Need for Improvements and the Type of Development: Each type of new development's impact on the drainage system is measured by its impervious area. The impervious area allows the relative impact of residential and non-residential land uses to be modeled so that each development type's impact on each proposed improvement can be calculated.

Relationship between Amount of Fee and Cost of or Portion of Facility Attributed to Development Upon Which Fee is Imposed: Impervious area is used to model impacts and cost allocation for the detention basins because it is the increase in impervious area that contributes to reduced capacity in the drainage system. The fee component for the detention basins is calculated using the following steps:

- 1. The total impervious area contributed by each development area is added together to calculate total new impervious area. Open space allocations within new development areas are not included in this total.
- 2. The cost of the detention basins is allocated to each new development area based on the ratio of its new impervious area to the total new impervious area.
- The cost of detention basins within each new development area is allocated to each existing land use based on the ratio of area devoted to that land use to the total impervious area in the development.
- 4. The fee component for each land use type is calculated by dividing the total cost allocated to the land use type by the units of land use within that area.

8 Funding and Financing Strategy for Capital Improvements

8.1 Introduction

This 2011 Update has described and calculated mitigation fees in the City necessary to support planned new development. Fee revenue will be used to construct infrastructure that mitigates the impacts of development. The PFFP includes a wide variety of public infrastructure. Some of the infrastructure has been constructed and financed by the City and these costs are included in the mitigation fees. Some of this infrastructure, particularly the Eastside Trunk Sewer, the eastside transmission main, portions of the roadway system and the storm drainage system must be installed prior to development in order to provide basic service to the SPAs and avoid reductions of service for existing development in the City. However, some of the proposed infrastructure provides for citywide needs at buildout and is not needed immediately. The City can fund the construction of these types of improvements as revenue is available.

This chapter outlines the City's options for using fee revenue and land secured debt and suggests priority facilities that could be included in a land-secured financing program. Where appropriate, this chapter also discusses strategies for funding the "existing users" share of proposed improvements.

8.2 "Pay-as-you-go" Mitigation Fees for New Development

Mitigation fees are typically collected at the time a building permit is issued. As a result, the fee revenue can vary from year to year and the City may need to accumulate fee revenue over time in order to execute projects. This is known as the "pay-as-you-go" approach. Some of the projects in this 2011 Update lend themselves to this approach because they allow the City to maintain service over time as it grows. Table 8-1 below, outlines the infrastructure that can be constructed over time, using Mitigation Fee revenue. This revenue will be collected from infill development and may be collected from development within the SPAs and PDs. Within the SPAs, mitigation fee revenue is most likely to be collected from discrete assessor's parcels in the Northwest, Northeast, and University District SPAs that are not included in the current master development proposals.

Table 8-1 – Pay-as-you-Go Facilities in the PF Program

ways & Bridges Name Dowdell Avenue: between Business Park Drive and 850' south of Business Park Drive \$ Dowdell Avenue: between 850' south of Business Park Drive and Martin Avenue \$ sation & Right of Way Dowdell Avenue: between Business Park Drive and 850' south of Business Park Drive \$ ic Control Devices & Intersection Improvements Camino Colegio @ East Cotati Commerce Blvd @ State Farm Drive \$ Commerce @ Southwest Dowdell @ Business Park Drive \$ Labath @ Rohnert Park Expressway	11 Total Costs 465,000 588,100 738,150 7,480 516,567 521,839 905,967 203,832 199,212 166,218 166,218	\$ 588,100 \$ 7,480 \$ 516,567 \$ 521,839 \$ 905,967 \$ 203,832 \$ 199,212 \$ 166,218	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	Existing Development
ways & Bridges Name Dowdell Avenue: between Business Park Drive and 850' south of Business Park Drive \$ Dowdell Avenue: between 850' south of Business Park Drive and Martin Avenue \$ sation & Right of Way Dowdell Avenue: between Business Park Drive and 850' south of Business Park Drive \$ ic Control Devices & Intersection Improvements Camino Colegio @ East Cotati Commerce Blvd @ State Farm Drive \$ Commerce @ Southwest Dowdell @ Business Park Drive \$ Labath @ Rohnert Park Expressway	465,000 588,100 738,150 7,480 516,567 521,839 905,967 203,832 199,212 166,218	\$ 465,000 \$ 588,100 \$ 738,150 \$ 7,480 \$ 516,567 \$ 521,839 \$ 905,967 \$ 203,832 \$ 199,212 \$ 166,218	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	
Name Dowdell Avenue: between Business Park Drive and 850' south of Business Park Drive Dowdell Avenue: between 850' south of Business Park Drive and Martin Avenue \$ sation & Right of Way Dowdell Avenue: between Business Park Drive and 850' south of Business Park Drive \$ ic Control Devices & Intersection Improvements Camino Colegio @ East Cotati \$ Commerce Blvd @ State Farm Drive \$ Commerce @ Southwest Dowdell @ Business Park Drive \$ Labath @ Rohnert Park Expressway \$	7,480 516,567 521,839 905,967 203,832 199,212 166,218	\$ 588,100 \$ 7,480 \$ 516,567 \$ 521,839 \$ 905,967 \$ 203,832 \$ 199,212 \$ 166,218	\$ \$ \$ \$ \$ \$	-
Dowdell Avenue: between Business Park Drive and 850' south of Business Park Drive Dowdell Avenue: between 850' south of Business Park Drive and Martin Avenue \$ sation & Right of Way Dowdell Avenue: between Business Park Drive and 850' south of Business Park Drive \$ ic Control Devices & Intersection Improvements Camino Colegio @ East Cotati \$ Commerce Blvd @ State Farm Drive \$ Commerce @ Southwest Dowdell @ Business Park Drive \$ \$ Labath @ Rohnert Park Expressway	7,480 516,567 521,839 905,967 203,832 199,212 166,218	\$ 588,100 \$ 7,480 \$ 516,567 \$ 521,839 \$ 905,967 \$ 203,832 \$ 199,212 \$ 166,218	\$ \$ \$ \$ \$ \$	-
Dowdell Avenue: between 850' south of Business Park Drive and Martin Avenue \$ sation & Right of Way Dowdell Avenue: between Business Park Drive and 850' south of Business Park Drive \$ ic Control Devices & Intersection Improvements Camino Colegio @ East Cotati \$ Commerce Blvd @ State Farm Drive \$ Commerce @ Southwest \$ Dowdell @ Business Park Drive \$ Labath @ Rohnert Park Expressway \$	7,480 516,567 521,839 905,967 203,832 199,212 166,218	\$ 588,100 \$ 7,480 \$ 516,567 \$ 521,839 \$ 905,967 \$ 203,832 \$ 199,212 \$ 166,218	\$ \$ \$ \$ \$ \$	-
pation & Right of Way Dowdell Avenue: between Business Park Drive and 850' south of Business Park Drive ic Control Devices & Intersection Improvements Camino Colegio @ East Cotati \$ Commerce Blvd @ State Farm Drive \$ Commerce @ Southwest \$ Dowdell @ Business Park Drive \$ Labath @ Rohnert Park Expressway \$	7,480 516,567 521,839 905,967 203,832 199,212 166,218	\$ 7,480 \$ 516,567 \$ 521,839 \$ 905,967 \$ 203,832 \$ 199,212 \$ 166,218	\$ \$ \$ \$ \$ \$ \$ \$	- - - - - -
Dowdell Avenue: between Business Park Drive and 850' south of Business Park Drive ic Control Devices & Intersection Improvements Camino Colegio @ East Cotati \$ Commerce Blvd @ State Farm Drive \$ Commerce @ Southwest \$ Dowdell @ Business Park Drive \$ Labath @ Rohnert Park Expressway \$	7,480 516,567 521,839 905,967 203,832 199,212 166,218	\$ 7,480 \$ 516,567 \$ 521,839 \$ 905,967 \$ 203,832 \$ 199,212 \$ 166,218	\$ \$ \$ \$ \$ \$	- - - - -
Dowdell Avenue: between Business Park Drive and 850' south of Business Park Drive ic Control Devices & Intersection Improvements Camino Colegio @ East Cotati \$ Commerce Blvd @ State Farm Drive \$ Commerce @ Southwest \$ Dowdell @ Business Park Drive \$ Labath @ Rohnert Park Expressway \$	7,480 516,567 521,839 905,967 203,832 199,212 166,218	\$ 7,480 \$ 516,567 \$ 521,839 \$ 905,967 \$ 203,832 \$ 199,212 \$ 166,218	\$ \$ \$ \$ \$ \$	- - - - -
Camino Colegio @ East Cotati \$ Commerce Blvd @ State Farm Drive \$ Commerce @ Southwest \$ Dowdell @ Business Park Drive \$ Labath @ Rohnert Park Expressway \$	516,567 521,839 905,967 203,832 199,212 166,218	\$ 516,567 \$ 521,839 \$ 905,967 \$ 203,832 \$ 199,212 \$ 166,218	\$ \$ \$ \$ \$	- - - -
Commerce Blvd @ State Farm Drive \$ Commerce @ Southwest \$ Dowdell @ Business Park Drive \$ Labath @ Rohnert Park Expressway \$	516,567 521,839 905,967 203,832 199,212 166,218	\$ 516,567 \$ 521,839 \$ 905,967 \$ 203,832 \$ 199,212 \$ 166,218	\$ \$ \$ \$ \$	- - - -
Commerce @ Southwest \$ Dowdell @ Business Park Drive \$ Labath @ Rohnert Park Expressway \$	521,839 905,967 203,832 199,212 166,218	\$ 521,839 \$ 905,967 \$ 203,832 \$ 199,212 \$ 166,218	\$ \$ \$ \$	-
Dowdell @ Business Park Drive \$ Labath @ Rohnert Park Expressway \$	905,967 203,832 199,212 166,218	\$ 905,967 \$ 203,832 \$ 199,212 \$ 166,218	\$ \$ \$ \$	- - -
Labath @ Rohnert Park Expressway \$	203,832 199,212 166,218	\$ 203,832 \$ 199,212 \$ 166,218	\$ \$ \$	-
	199,212 166,218	\$ 199,212 \$ 166,218	\$	-
	166,218	\$ 166,218	\$	-
Redwood Drive @ Rohnert Park Expressway \$				
US 101 NB Ramps @ Golf Course/Commerce \$	166,218	\$ 166,218		-
US 101 SB Ramps @ Wilfred/Redwood \$			\$	-
ic Safety				
Training Facilities \$	5,820,444	\$ 1,734,818	\$	4,085,626
ic Facilites				
City Hall (completed) \$	8,540,000	\$ 2,545,399	\$	5,994,601
Master Plans (completed) \$	450,000	\$ 134,125	\$	315,875
Westside Utilities (Dowdell Ave) \$	1,605,749	\$ 1,605,749	\$	-
Corporation Yard Expansion (includes Public Safety Maintenance) \$ Median & Frontage Improvements	2,662,200	\$ 2,662,200	\$	-
Dowdell Avenue: between Business Park Drive and 850' south of Business Park Drive \$	491,904	\$ 491,904	\$	-
Dowdell Avenue: between 850' south of Business Park Drive and Martin Avenue \$	622,113	\$ 622,113	\$	-
er System Improvements				
Eastside Trunk Sewer Phase 1 \$	21,605,335	\$ 16,236,415	ς	5,368,920
Eastside Trunk Sewer Phase 2 Main Reach \$	10,637,139			426,705
				="
Eastside Trunk Sewer Phase 2a (South Reach) \$	1,150,329		1	110,749
Eastside Trunk Sewer Phase 3 (North Reach) \$	2,805,235	\$ 2,805,235	\$	-
Interceptor Outfall Project \$	23,132,623	\$ 7,009,184	\$	16,123,439
Subregional System Improvements \$	202,132,150	\$ 52,628,114	\$	149,504,036
Canon Manor Project Management \$	435,328	\$ 96,959	\$	338,369
er System Improvements				
Westside Water System Improvements \$	157,325	\$ 157,325	ć	
vvesisiue vvatei systein improvements	137,325	15/,525 ب	Ş	-
Pay-as-you-Go Program \$	286,726,457	\$ 104,458,137	\$	182,268,320
CCI (San Francisco, CA - September 2011) = 10192.79	,,	, ,	Ĺ	- ,,

8.3 Land Secured Bond Financing for New Development

As noted above, a number of capital facilities included in this 2011 Update must be constructed early in the development program. These facilities are logically separated by eastside and westside improvements and are listed in Tables 8-2a and 8-2b, below. This 2011 Update proposes to fund the construction of these facilities with the proceeds from land-secured municipal bond sale(s). These costs represent the costs of construction only and do not include the overhead associated with public financing. Financing overheard would be recovered from bond proceeds. Financing overhead costs can include:

- Bond Reserve Funds, typically budgeted at 10%;
- Underwriter's Discount, typically budgeted at 2%;
- Issuance Costs (legal, engineering, administration), typically budgeted at 5%;
- Capitalized Interest, budgeted for a maximum of 3 years.

The City has two options for land-secured bonds that can finance new development's fair share of infrastructure improvements. These are Benefit Assessments and Mello-Roos Special Taxes.

Table 8-2a – Facilities to Include in an Eastside Land Secured Bond Program

					2011 All	oca	tions
					New		Existing
		201	1 Total Costs	l	Development		evelopment
Roadv	vays & Bridges						
No.	Name						
1	Bodway Parkway: between Valley House and Railroad	\$	994,500	\$	994,500	\$	-
	Environmental Mitigation	\$	400,800	\$	400,800	\$	-
6	Keiser Avenue: between Snyder Lane & Petaluma Hill Road	\$	2,588,500	\$	2,588,500	\$	-
7	Rohnert Park Expressway: between Syder Lane & Petaluma Hill road	\$	4,658,400	\$	4,658,400	\$	-
	Environmental Mitigation	\$	223,200	\$	223,200	\$	-
8	Snyder Lane: between G Section & north side of Creekside Middle School	\$	3,284,500	\$	2,810,300	\$	474,200
	Bridge @ Five Creek	\$	539,400	\$	539,400	\$	-
	Bridge @ Crane Creek	\$	539,400	\$	539,400	\$	-
9	Snyder Lane: between south side of Creekside Middle School and Medical Center Drive	\$	828,700	\$	711,500	\$	117,200
	Bridge @ Hinebaugh Creek	\$	539,400	\$	539,400	\$	-
10	Snyder Lane: between Medical Center Drive and Southwest Blvd	\$	2,020,900	\$	1,711,100	\$	309,800
	Bridge @ Copeland Creek	\$	435,000	\$	435,000	\$	-
Traffic	Control Devices & Intersection Improvements						
6	Petaluma Hill Road @ Keiser Avenue	\$	1,290,859	\$	1,290,859	\$	-
7	Petaluma Hill Road @ RPX	\$	263,336	\$	263,336	\$	-
8	Petaluma Hill Road @ Valley House	\$	1,290,859	\$	1,290,859	\$	-
12	Snyder Lane @ Keiser	\$	780,003	\$	780,003	\$	-
13	Snyder Lane @ RPX	\$	270,819	\$	270,819	\$	-
Public	Safety						
	New Southside Station	\$	3,640,300	\$	3,640,300	\$	-
Public	Facilities						
	Median and Frontage Improvements						
	Bodway Parkway: between Valley House and Railroad	\$	1,159,938	\$	1,159,938	\$	-
	Keiser Avenue: between Snyder Lane & Petaluma Hill Road	\$	2,961,684		2,961,684	\$	-
	Rohnert Park Expressway: between Syder Lane & Petaluma Hill Road	\$	4,736,232		4,736,232	\$	-
	Snyder Lane: between G Section & north side of Creekside Middle School	\$	2,761,880	\$	2,761,880	\$	-
	Snyder Lane: between south side of Creekside Middle School and Medical Center Drive		358,589	\$	358,589	\$	-
	Snyder Lane: between Medical Center Drive and Southwest Blvd	\$	945,371	\$	945,371	\$	-
Water	System Improvements						
	Eastside Transmission Main	\$	2,299,700	\$	2,299,700	\$	-
Storm	Drainage Facilities - Proposed Additions						
	Copeland Detention Basin (10 acres)	\$	2,470,731		2,470,731		-
	Northeast Detention Basin (6.5 acres)	\$	3,897,600	\$	3,897,600	\$	-
Total I		\$	46,180,601	\$	45,279,401	\$	901,200
ENR C	CI (San Francisco, CA - September 2011) = 10192.79						

Table 8-2b- Facilities to Include in a Westside Land Secured Bond Program

					2011 All	ocat	ions
					New		Existing
		201	1 Total Costs	D	evelopment	D	evelopment
Roady	ways & Bridges						
No.	Name						
2	Dowdell Avenue: between 375' north & 750' south of Wilfred Avenue	\$	870,000	\$	870,000	\$	-
3	Dowdell Avenue: between 750' south of Wilfred Avenue and Business Park Drive	\$	845,600	\$	845,600	\$	-
	Bridge @ Business Park Drive	\$	870,000	\$	870,000	\$	-
11	Wilfred Avenue: between 1999 City Limits and Dowdell Avenue	\$	453,500	\$	453,500	\$	-
12	Wilfred Avenue: between Dowdell Avenue and UGB	\$	1,892,300	\$	1,892,300	\$	-
Traffic	c Control Devices & Intersection Improvements						
9	Redwood Drive @ Business Park Drive	\$	516,567	\$	516,567	\$	-
11	Redwood Drive @ Wilfred	\$	1,068,099	\$	1,068,099	\$	-
						\$	-
Public	Safety						
	New Westside Station	\$	3,722,112	\$	1,795,002	\$	1,927,110
Media	 an and Frontage Improvements						
	Dowdell Avenue: between 375' north & 750' south of Wilfred Avenue	\$	754,076	\$	754,076	\$	-
	Dowdell Avenue: between 750' south of Wilfred Avenue and Business Park Drive	\$	837,863	\$	837,863	\$	-
	Wilfred Avenue: between 1999 City Limits and Dowdell Ave	\$	508,706	\$	508,706		-
	Wilfred Avenue: between Dowdell Ave and UGB	\$	2,122,534	\$	2,122,534	\$	-
Total	l Plan	\$	14,461,357	\$	12,534,247	\$	1,927,110
ENR C	CI (San Francisco, CA - September 2011) = 10192.79						

8.3.1 Benefit Assessments

Benefit Assessments for capital improvements are most commonly established under the auspices of the Municipal Improvement Act of 1913, Division 12 of the Streets and Highways Code (the "1913 Act"). Since 1996, benefit assessments must comply with the provisions of Articles XIIIC and XIIID of the State Constitution (Proposition 218). Benefit assessments may be used to fund capital improvements that specially benefit property provided that: (i) assessments are levied based on the special benefits provided by the project; (ii) any assessment does not exceed the reasonable cost of the proportional special benefit conferred on a parcel; and (iii) the cost of general benefits conferred by improvements are not included within the assessment.

The establishment of a benefit assessment requires a public hearing and a property owner ballot. Assessment ballots are weighted by the amount of the assessment. If the majority of the weighted

ballots (more than 50%) approve the proposed assessment, the City may impose the assessment. Confirmed 1913 Act assessments may be paid in cash before bonds are issued. 1913 Act assessments are also commonly used to secure municipal bonds issued under the Improvement Bond Act of 1915, Division 10 of the Streets and Highways Code (the "1915 Act"). The City has used 1913/1915 Act combinations to fund capital improvements for the Camino Colegio Assessment District Project No. 1985-1 ("AD 85-1"), the Wilfred Avenue Interchange Area Assessment District Project No. 1987-10 ("AD 87-10") and the Millbrae Avenue Assessment District Project No. 1988-1 ("AD 88-1").

Assessment bonds may be refunded to allow property owners to take advantage of lower interest rates under the Refunding Act of 1984 for 1915 Improvement Act Bonds, Section 9523 of the Streets and Highways Code (the "1984 Act"). The City has used the 1984 Act on several occasions to refund existing assessment bonds to reduce assessment payments by property owners.

The City has formed an assessment district under the auspices of the 1913 Act to secure new developments' share of its Interceptor Outfall project. This existing fixed lien has been placed on property within the Northeast SPA, the University District SPA, the Southeast SPA and the Stadium Lands and Sonoma Mountain Village PD.

8.3.2 Mello-Roos Community Facilities Districts

Mello-Roos Community Facilities Districts ("CFDs") are established under the Mello-Roos Community Facilities Act of 1982, Section 53111 et. seq. of the Government Code (the "Mello-Roos Act"). CFDs use special taxes, which are not required to be based on special benefits and therefore are not subject to the Proposition 218 requirements for benefit assessments.

The establishment of a CFD also requires a public hearing and a vote. If there are fewer than twelve registered voters within proposed boundaries of the CFD, property owners vote; otherwise the registered voters vote. In the City's case, there are existing dwelling units within some of the SPAs and there may well be more than 12 resident registered voters with some of the SPAs. The resident registered voter requirements may be an important consideration for the City and the development community when selecting a financing vehicle.

A two-thirds vote approval (of those actually voting) is required to confirm the special tax and authorize bonds. If the vote is by property owners, each has one vote for each acre or part of acre owned in the CFD. If the vote is by voters, each has one vote. Special taxes may be paid off in cash if the special tax formula makes such provisions. Special tax revenue can also be used to secure municipal bonds, issued under Mello-Roos Act. Mello-Roos bonds also may be refunded under the provisions of Mello-Roos. The Mello Roos Act requires that the City adopt local goals and policies before forming CFDs. A copy of the City's adopted goals and policies is included in Appendix E.

Appendix A – Land Use Update

this page intentionally left blank

2010 Upo	uate -												
		Single- Family Residential (1)	Multi-Family Residential (2)	Senior Housing (3)	Assisted Living Facility	General Offices (4)	Hotel/Motel	Strip Retail	Shopping Center/ Retail (5)	Light Industrial (6)	Heavy Industrial	Warehouse (7)	
		(units)	(units)	(units)	(units)	(sq ft)	(sq ft)	(sq ft)	(sq ft)	(sq ft)	(sq ft)	(sq ft)	
East Side													
97base 125-A		18											
00001	total	18	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2002base 125-A		19											
120 71	Total	19	0	0	0	0	0	0	0	0	0	0	
97base		749	110										
125-B		=											
2002base	total	749 945	110 533	0	0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0	
125-B		040	000			0.0			0.0				
	Total	945	533	0	0	0	0	0	0	0	0	0	
97base		5											
125-C	total	5	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2002base	เบเลเ	7	0	U		0.0	0.0	0.0	0.0	0.0	0.0	0.0	
125-C		263											
	Total	270	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
97base 125-D		10 607	104	4.4									
120-D	total	607	161 161	14 14	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	ally
2002base	John	11	2				0.0	3.0	0.0	3.0		3.0	oric
125-D		443	300										Hista
	Total	454	302	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	Ϋ́
97base 125-E		<u>1</u>											Northeast SPA Historically
12J-L	total	7	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	east
2002base		4											rthe
125-E		58											ž
00406	Total	62	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	NE SPA Summariz I ed
2010base 125-C,D,E		0 920	200										SP.
125-0,D,L	Total	920	200	0	0	0	0	0	0	0	0	0	Sur
97base		0											
125-F		116	426	37		64,416.0			38,649.6				
2002base	total	116 1	426	37	0	64,416.0	0.0	0.0	38,649.6	0.0	0.0	0.0	
125-F		266	212			0.0			130,000.0				
	Total	267	212	0	0	0.0		0.0	130,000.0	0.0	0.0	0.0	
97base		0											
125-G	total	259 259	408 408	36 36	0	97,680.0 97,680.0	0.0	0.0	58,608.0 58,608.0	0.0	0.0	0.0	
2002base	เบเลเ	259	400	30	l	97,000.0	0.0	0.0	56,606.0	0.0	0.0	0.0	
125-G		454	365			0.0	0.0		60,000.0				
	Total	454	365	0	0	0.0	0.0	0.0	60,000.0	0.0	0.0	0.0	
97base 247-B		0	178	16		38,544.0			22 126 1				
Z41-D	total	0		16	0	38,544.0	0.0	0.0	23,126.4 23,126.4	0.0	0.0	0.0	
2002base					-				,				
247-B		104	153			0.0			25,000.0				
07haaa	Total	104	153	0	0	0.0	0.0	0.0	25,000.0	0.0	0.0	0.0	<u>c</u>
97base 247-C		1	26	2		25,872.0			15,523.2				University District
247 0	total	1	26	2	0	25,872.0	0.0	0.0	15,523.2	0.0	0.0	0.0	
2002base		1											ersit
247-C	Total	56	0	0	0	0.0		0.0	35,000.0		0.0	0.0	nive
201	Total 10base	57 0	0	0	0	0.0	0.0	0.0	35,000.0	0.0	0.0	0.0	
125-F,G and 2		883	762						175,000.0				mm sed
,	Total	883	762	0	0	0	0	0		0	0	0	UD Summ arized
1													
Infill 2002base							213,331.0	1,000.0	50,610.0				
124-A							210,001.0	1,000.0	50,010.0				
	Total	0	0	0	0	0.0	213,331.0	1,000.0	50,610.0	0.0	0.0	0.0	
2002base		624											
124-B	Total	624	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2002base	Total	198		0	0	0.0	0.0	1,576.0	0.0	0.0	0.0	0.0	
124-C		190	201					1,370.0					
	Total	198	201	0	0	0.0		1,576.0	0.0	0.0	0.0	0.0	
97base		8	241			74,000.0							
125-H	total		244			148,262.4	0.0	0.0	0.0		0.0	0.0	
2002base	total	8 34	241 199	0 207	0	222,262.4 78,461.0		0.0	0.0	0.0	0.0	0.0	
125-H					135	4,688.6							
	Total	34	199	207	135	83,149.6		0.0	0.0	0.0	0.0	0.0	

2010 0	puate -	97 Formula	l										
		Single-	Multi-Family	Senior	Assisted	0 10"			Shopping	12.141.1.42.1			
		Family Residential	Residential	Housing	Living	General Offices (4)	Hotel/Motel	Strip Retail	Center/ Retail	Light Industrial (6)	Heavy Industrial	Warehouse (7)	
		(1)	(2)	(3)	Facility	(4)			(5)	(6)	inuusinai		
		()											
		(units)	(units)	(units)	(units)	(sq ft)	(sq ft)	(sq ft)	(sq ft)	(sq ft)	(sq ft)	(sq ft)	
97base			212						136,500.0				
126-A	total	0	212	0	0	0.0	0.0	0.0	67,716.0 204,216.0	0.0	0.0	0.0	
2002base	iolai	U	208	U	U	28,411.0		0.0	437,363.0	0.0	0.0	4,147.0	
126-A			200			20,	00,007.0		39,322.8			.,	
	Total	0	208	0	0	28,411.0	55,387.0	0.0	476,685.8	0.0	0.0		
2005base		0	208	0	0	28,411	55,387	0	442,949	0	0		
126-A	Total	0	0 208	0	0	0 28,411.0	0 55 297 0	0.0	33,737 476,685.8	0.0	0.0	0 4,147.0	
97base	Total	U	206	U	U	20,411.0	55,387.0	0.0	470,000.0	0.0	0.0	4,147.0	
126-B									45,144.0				
120 2	total	0	0	0	0	0.0	0.0	0.0		0.0	0.0	0.0	
2002base	,		294		,	18,419.0						86,000.0	
126-B									7,246.8				
	Total	0	294	0	0	18,419.0	0.0	0.0	7,246.8	0.0	0.0		
2002base						24,981.0		94,686.0		31,201.0		105,222.0	
127-A	Total	0	0	0	0	24,981.0	0.0	94,686.0	0.0	23,207.6 54,408.6	0.0	105,222.0	
2002base	rotal					80,438.0		11,675.0		195,858.0	0.0	196,094.0	
127-B						43,956.3		11,070.0		11,850.3		100,004.0	
	Total	0	0	0	0	124,394.3	0.0	11,675.0	0.0	207,708.3	0.0	196,094.0	
2010 base						88,917.0		11,675.0		195,858.0		196,094.0	
127-B						35,477.3				11,850.3			
075	Total	0	0	0	0	124,394	0	11,675	0	207,708	0	196,094	
97base 127-C			45	4		3,400.0 45,408.0		84,600.0	27,244.8				
121-0	total	0	45 45	4	0	45,408.0 48,808.0	0.0	84,600.0	27,244.8	0.0	0.0	0.0	
2002base	total	· ·		·		30,404.0		16,600.0	21,21110	0.0	0.0		
127-C			98			23,020.2		,				71,011.5	
	Total	0	98	0	0	53,424.2	0.0	16,600.0	0.0	0.0	0.0		
2005base		0	0	0	0	30,404	0	16,600	0	0	0		
127-C	Total	0	98	0	0	23,020	0	16 600 0	0	0	0		
97base	Total	U	98	U	0	53,424.2 228,000.0	0.0	16,600.0	0.0	0.0 26,000.0	0.0	100,000.0 70,600.0	
127-D						220,000.0				40,986.0		4,554.0	-
	total	0	0	0	0	228,000.0	0.0	0.0	0.0	66,986.0	0.0		
2002base						312,978.0				131,658.0		177,215.0	
127-D						0.0				0.0		0.0	
00001	Total	0	0	0	0	312,978.0	0.0	0.0	0.0	131,658.0	0.0	177,215.0	
2002base 128-A		267	374 22	2		54,253.0							
120-A	Total	267	396	2	0	54,253.0	0.0	0.0	0.0	0.0	0.0	0.0	
2005base	rotar	267	384	0	0	54,253	0	0		0	0.0		
128-A		0	12	2	0	0	0	0	0	0	0	0	
	Total	267	396	2	0	54,253.0	0.0	0.0	0.0	0.0	0.0	0.0	
2002base		278	167										
128-B	Total	270	167	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2002base	Total	278 38	55	- 0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	
130-A		- 00	- 00										
	Total	38	55	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-
2002base		134	277			18,992.0							
130-B	_												
2002base	Total	134	277	0	0	18,992.0	0.0	17 225 0		0.0	0.0	0.0	
2002base 131-A	+	222	403 50			6,921.0		17,225.0 1,456.1					
131-A	Total	222	453	0	0	6,921.0	0.0	18,681.1	10,429.0	0.0	0.0	0.0	
2010 base	· Jiul	222	403			6,921.0	- 0.0	17,431.0			0.0	0.0	
131-A			50			.,		1,250.1	,				
Total		222	453	0	0	6,921	0	18,681	10,429	0	0	0	
2002base		604	322			6,181.0							
131-B	Total	604	200	0		6.494.0	0.0	0.0	0.0	0.0	0.0	0.0	
2002base	Total	604 610	322 150	0	0	6,181.0	0.0	0.0	0.0	0.0	0.0	0.0	
134-C		010	130										
	Total	610	150	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
97base		clarify base											
135-B			19	2					59,400.0				
2222	total	0	19	2	0	0.0	0.0	0.0	59,400.0	0.0	0.0	0.0	_
2002base		802	567			2,000.0	0.0	27,363.0	0.0				
135-B	Total	802	567	0	0	2,000.0	0.0	27,363.0	0.0	0.0	0.0	0.0	
2005base	Total	802	587	0	0	2,000.0	0.0	53,467	0.0		0.0		
135-B		002	0	0	0	2,000	0	0		0	0		
	Total	802	587	0	0	2,000.0	0.0	53,467.0	0.0	0.0	0.0		
2002base		281	439										
135-C													-
	Total	281	439	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

	uuto .	97 Formula											
		Single- Family Residential (1)	Multi-Family Residential (2)	Senior Housing (3)	Assisted Living Facility	General Offices (4)	Hotel/Motel	Strip Retail	Shopping Center/ Retail (5)	Light Industrial (6)	Heavy Industrial	Warehouse (7)	1
97base 135-D		(units) 27	(units)	(units)	(units)	(sq ft)	(sq ft)	(sq ft)	(sq ft)	(sq ft) 550,000.0 317,196.0	(sq ft)	(sq ft) 35,244.0	
2002base	total	27 144	0	0	0	0.0	0.0	0.0	0.0	867,196.0 735,000.0	0.0	35,244.0	
135-D		144								720,106.2			
	Total	144	0	0	0	0.0	0.0	0.0	0.0	1,455,106.2	0.0	0.0	
2010base		144								735,000.0			
135-D		700	994			426,000.0			261,801.0	0.0			
071	Total	844	994	0	0	426,000.0	126,000.0	0.0	261,801.0	0.0	0.0	0.0	
97base 239-A										650,000.0 40,095.0		4,455.0	
239-A	total	0	0	0	0	0.0	0.0	0.0	0.0	690,095.0	0.0	4,455.0	
2002base 239-A	total	Ĭ	, and the second	ŭ		0.0		5,760.0	0.0	296,686.0 34,392.6	0.0	756,754.0	
	Total	0	0	0	0	0.0	0.0	5,760.0	0.0	331,078.6	0.0	756,754.0	
97base 239-B								20,000.0		280,000.0 368,874.0		40,986.0	
	total	0	0	0	0	0.0	0.0	20,000.0	0.0	648,874.0	0.0	40,986.0	
2002base			407			22,725.0		9,038.0	185,030.0	248,069.0		52,032.0	
239-B	Total	0	167 167	0	0	22,725.0	0.0	9,038.0	140,000.0 325,030.0	248,069.0	0.0	52,032.0	
2010 Base	Total	- 0	107		0	22,725.0	0.0	9,038.0	231,028.0	248,069.0	0.0	52,032.0	
239-B			338			22,. 23.0		5,555.0	140,000.0	0,000.0		32,002.0	
	Total	0	338	0	0	22,725		9,038	371,028	248,069	0	52,032	
97base							160.0		126,080.0				
239-C	total	0	0	0	0		160.0	0.0	55,836.0	0.0	0.0	0.0	
2002base	totai	U	U	U	U	0.0	36,368.0	0.0	181,916.0 234,741.0	0.0	0.0	0.0	
239-C							30,300.0		52,628.4				
255-0	Total	0	0	0	0	0.0	36,368.0	0.0	287,369.4	0.0	0.0	0.0	
2005base		0	0	0	0	0		0	243,795	0	0	0	
239-C		0				0		0	43,574	0	0	0	
2040	Total	0	0	0	0	0.0	36,368.0	0.0	287,369.4	0.0	0.0	0.0	
2010 base 239-C							98,248.0		252,644.0 34,725.4				
2002base	Total	0	0	0	0	0	98,248 39,000.0	0 149,047.0	287,369 14,504.0	0	0	0	
240-D	Total	0	0	0	0	0.0	39,000.0	140.047.0	14 504 0	0.0	0.0	0.0	
97base	TUIAI	U	U	U	U	0.0	39,000.0	149,047.0	14,504.0 68,440.0	0.0	0.0	0.0	
240-E									92,664.0				
	total	0	0	0	0	0.0	0.0	0.0	161,104.0	0.0	0.0	0.0	
2002base									100,869.0			105,000.0	
240-E	T	•				2.2		2.2	29,224.8	0.0	0.0	105 000 0	
2010base	Total	0	0	0	0	0.0	0.0	0.0	130,093.8 106,034.0	0.0	0.0	105,000.0 105,000.0	
240-E									24,059.8			105,000.0	
2.02	Total	0	0	0	0	0	0	0	130,094	0	0	105,000	
2002base			300										
240-G			213										
2005h	Total	0			0	0.0		0.0	0.0	0.0		0.0	
2005base 240-G		0			0	0		0	0	0	0	0	
240 0	Total	0			0	0.0		0.0	0.0	0.0			
97base												270	
242-A							171,072.0						
	total	0			0	0.0	171,072.0	0.0	0.0	0.0	0.0	0.0	
2002base			176				0.0	40,600.0					
242-A	Total	0	176	0	0	0.0	0.0	40,600.0	0.0	0.0	0.0	0.0	
2002base	IJIAI	580	5		0	0.0	0.0	+0,000.0	0.0	0.0	0.0	0.0	
242-B		000	J										
	Total	580	5		0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
97base		218	144										
242-C		0/10							10,692.0		0.0		
2002base	total	218 267	144 145		0	0.0	0.0	4,300.0	10,692.0	0.0	0.0	0.0	
242-C		201	7					5,000.0					
	Total	267	152		0	0.0	0.0	9,300.0	0.0	0.0	0.0	0.0	
2005base		267	152	0		0	0	4,300	44,154.0	0			
242-C		0				0			0				
2010hag -	Total	267	152		0	0.0	0.0	9,300.0	44,154.0	0.0	0.0	0.0	
2010base 242-C		267	152					9,411.0 0.0					
L 12 0	Total	267	152	0	0	0.0	0.0	9,411.0	0.0	0.0	0.0	0.0	
2002base		454											
242-E													
	Total	454	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

	paule .	97 Formula											
		Single-	Multi-Family	Senior	Assisted	0 10"			Shopping				1
		Family Residential	Residential	Housing	Living	General Offices (4)	Hotel/Motel	Strip Retail	Center/ Retail	Light Industrial (6)	Heavy Industrial	Warehouse (7)	1
		(1)	(2)	(3)	Facility	(4)			(5)	(0)	maasman		I
		(/											
		(units)	(units)	(units)	(units)	(sq ft)	(sq ft)	(sq ft)	(sq ft)	(sq ft)	(sq ft)	(sq ft)	
2002base			983										
242-F	Total	0	983	0	0	0.0	0.0	0.0	88,308.0	0.0	0.0	0.0	
2002base						14,534.0		97,471.0	144,269.0			5.0	
243-A						ŕ		,	·				
	Total	0	0	0	0	14,534.0	0.0	97,471.0	144,269.0	0.0	0.0		
2002base						283,230.0						7,168.0	
243-B	Total	0	0	0	0	283,230.0	0.0	0.0	0.0	0.0	0.0	7,168.0	
2002base	70101		937			14,528.0	0.0	6,226.0		0.0	0.0	7,100.0	
243-C									.,				
	Total	0	937	0	0	14,528.0	0.0	6,226.0	48,508.0	0.0	0.0	0.0	
2002base						7.005.7	113,517.0	10,975.0					
244-A	Total	0	0	0	0	7,995.7 7,995.7	113,517.0	38,269.1 49,244.1	0.0	0.0	0.0	0.0	
2010 base	Total					7,000.7	113,517.0	11,239.0	0.0	0.0	0.0	0.0	
244-A						7,995.7	,	38,005.1				•	
	Total	0	0	0	0	7,996	113,517	49,244	0	0	0	0	
97base						42,000.0			00.001				<u> </u>
244-B	total	0	43 43	4	0	43,824.0 85,824.0	0.0	0.0	26,294.4 26,294.4	0.0	0.0	0.0	
2002base	เบเสเ		43	4	U	7,934.0	0.0	0.0	20,234.4	0.0	0.0	0.0	
244-B			180			12,080.6		29,711.0					
	Total	0	180	0	0	20,014.6	0.0	29,711.0	0.0	0.0			
2005base		0		0	0	7,934	0	2,000	0	0			
244-B	Total	0		0	0	12,081	0	27,711	0	0			
2010base	Total	0	180 100	0	0	20,014.6 10,347.0	0.0	29,711.0 6,665.0	0.0	0.0	0.0	0.0	
244-B			80			9,667.6		23,046.0					
	Total	0		0	0	20,014.6	0.0	29,711.0	0.0	0.0	0.0	0.0	
2002base			75										
245-A	T-4-1	0	75	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2002base	Total	0 261	75 52	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
245-B		201	52									-	
	Total	261	52	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2002base			376			12,224.0							
246-A													
00001	Total	0		0	0	12,224.0	0.0	0.0	0.0	0.0	0.0	0.0	-
2002base 246-B		94	574										
240 B	Total	94	574	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2002base		137											
247-A													
20001	Total	137	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-
2020base 247-D		159	74										
	Total	159	74	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
97base		289						6,400.0					
248-A			47										
20001	total	289	167	4	0	0.0	0.0	6,400.0	0.0	0.0	0.0	0.0	—
2002base 248-A		287	153 7					5,060.0 0.0					
-10-A	Total	287	160	0	0	0.0	0.0	5,060.0		0.0	0.0	0.0	
2005base		287	169	0	0	0	0	5,060		0			
248-A		0	0	0	0	0	0	0	0	0	0	0	
2000	Total	287	169	0	0	0.0	0.0	5,060.0	0.0	0.0	0.0	0.0	
2002base 248-B		109	170					4,035.0	188,248.0				
240-D	Total	109	170	0	0	0.0	0.0	4,035.0	188,248.0	0.0	0.0	0.0	
Southeast	, 0.01					3.0		.,,000.0		3.0	0.0	3.0	
7base		1											
52-B		505								138,996.0		15,444.0	
20001	total	506	0	0	0	0.0	0.0	0.0	0.0	138,996.0	0.0	15,444.0	i
2002base 252-B		463	36					20,000.0		0.0		0.0	
.02 D	Total	463	36	0	0	0.0	0.0	20,000.0	0.0	0.0			
2010base		.,,0	- 30			3.0			2.0	3.0		3.0	
252-B		394	81						10,000.0				
	Total	394	81	0	0	0	0	0	10,000	0	0	0	
97base 252-C										563,112.0		62,568.0	
.52-0	total	0	0	0	0	0.0	0.0	0.0	0.0	563,112.0			
2002base	iolal	0	0		- 0	0.0	0.0	0.0	0.0	000,112.0	0.0	02,000.0	
252-C													
	Total	0	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
													. –

2010 Update	Single- Family	Multi-Family	Senior	Assisted	General Offices			Shopping	Light Industrial	Heavy		
	Residential (1)	Residential (2)	Housing (3)	Living Facility	(4)	Hotel/Motel	Strip Retail	Center/ Retail (5)	(6)	Industrial	Warehouse (7)	
	(units)	(units)	(units)	(units)	(sq ft)	(sq ft)	(sq ft)	(sq ft)	(sq ft)	(sq ft)	(sq ft)	
West Side	_											
97base 74-B	7							10,692.0				
74-D	tal 7	0	0	0	0.0	0.0	0.0	10,692.0	0.0	0.0	0.0	
2002base	6		l	l	0.0	0.0	0.0	10,092.0	0.0	0.0	0.0	
74-B		0	0		0.0			0.0	0.0			
Tot	tal 6				0.0	0.0	0.0		0.0		0.0	
97base	23											
74-C								163,277.0				
tot	tal 23	0	0	0	0.0	0.0	0.0	163,277.0	0.0	0.0	0.0	
2002base	51											
74-C		328			84000	63,795.6	69,322.2	164,000.0				
Tot	tal 51	328	0	0	84,000.0	63,795.6	69,322.2	164,000.0	190,000.0	0.0	0.0	
97base	1											
74-D									1			
tot		0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2002base	1			1						 		
74-D Tot	tal 1	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
97base	6	5										
240-B					110,246.4			34,452.0			3,861.0	
tot			0	0	110,246.4	0.0	0.0	34,452.0	34,749.0	0.0	3,861.0	
2002base	4											
240-B	- L 4				0.0	0.0	0.0	0.0	0.0	0.0		
Tot			0	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
97base 240-C	15	1			348,480.0			250 204 0	226 709 0		27 422 0	
240-C	tal 15	0	0	0	,	0.0	0.0	350,301.0 350,301.0			37,422.0 37,422.0	
2002base	17		l	l	340,400.0	0.0	0.0	330,301.0	330,796.0	0.0	31,422.0	
240-C	- 17	572	0		146000		120,757.8	286,000.0	330,000.0			
Tot	tal 17				l .	0.0	120,757.8	286,000.0			0.0	
2010ba				0	,		0.0					0
74-B,C,D and 240-B				Ť	230,000.0	0	0.0		520,000.0			NE ⊗ WD
Tot	tal 0	900	0	0	230,000	0	0	752,114	520,000	0	0	
2010 Update Totals:												
2010 Total Base	7,548.00		207.00		1,028,506.00		540,987.00		1,638,472.00		1,589,632.00	
New Development	2,897.00					126,000.00	61,051.10		589,450.50		0.00	
Buildout Projections	10,445.00						603,288.19		1,492,922.50		, ,	
ck	10,445.00	12,059.00	208.92	135.00	1,765,355.44	645,483.00	602,038.10	2,920,660.00	2,227,922.50	0.00	1,589,632.00	
Westside Fire Station	(TAZ 74B C D	126A B 239A	B C and 2	40 B C D	F G)							
2010 Total Base	0.00		0.00	0.00		192,635.00	163,845.00	1,047,159.00	544,755.00	0.00	1,003,933.00	
New Development	0.00						0.00	991,882.80	554,392.60		0.00	
Buildout Projections	0.00					192,635.00	163,845.00		1,099,147.60			
	3.00	_, 2.30	0.50	0.00				-,,	.,,	0.00	1,113,000.00	-
Southside Fire Station	n (All Remainin	g Developme	nt)									
2010 Total Base	7,548.00	7.500.00	007.00	0.00	958,951.00	326,848.00	377,142.00	442,064.00	1,093,717.00	0.00	585,699.00	
New Development	2,897.00					126,000.00	61,051.10		35,057.90		,	
Buildout Projections	10,445.00	9,837.00	208.92	135.00	1,465,800.44	452,848.00	439,443.19	977,173.00	393,774.90	0.00	585,699.00	
					-		-	-				
(1) Includes housing ur							ential districts.					
(2) Includes housing ur									<u> </u>			
(3) Assumes that 8% o		using will be se	enior housi	ng. Approx	kimately 8% of the	Rohnert Par	k population was	s over the age o	of 65 in 1990 (US	3 Departme	nt of Commerce,	
County and City Data E												
(4) Includes all comme												
(4) Includes all comme					ו ווסטר area in the	iviixea Use: (commercial and	Onice district. (alegory	 		
(6) Includes 90% of cor(7) Includes 10% of cor									<u> </u>		 	
(8) There is no acreage					The proposed SS	SU Concert H	all is approximat	L tely 97,000 (gro	ss) square feet in	n size, inclu	uding a 1,400-squ	are foot
concert hall,							• •		•			
300-square foot recital	hall, practice ha	II, practice roo	ms, faculty	offices, ar	nd public space.					'		
(9) 0.25 students per h	ousehold in sing	le-family house	es; 0.15 stu	udents per	household in nor	n-senior multif	amily houses.	•		•		
(10) 0.11 students per												
(11) 0.09 students per								-				
(12) Includes all land a	creage in the Pa	rks/Recreation	n district, in	cluding the	e 180-acre Golf C	ourse and 50	-acre Sports Co	mplex.				
(13) Includes all land a	creage in the An	riculture/Open	Space dis	trict, which	n includes open si	oace areas ea	ast of the city lim	its, west of Peta	aluma Hill Road.	north of Ra	ilroad Avenue. ar	nd south of
, ,					2 2 1 2 2 7			,				
the Holly Street extensi	ion.											
the Holly Street extens For SPAs to that are to		the City, exis	ting SFRs	are not us	ed in the fee calcu	ulations since	the SFRs will be	e redeveloped	Г			

this page intentionally left blank

Appendix B – Cost Estimates

this page intentionally left blank

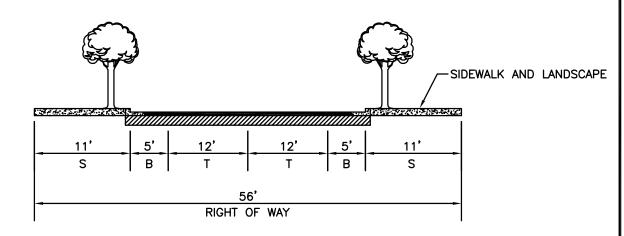
Roadways, Medians & Frontage

0205609003 June 2010

Segment 1

Bodway Parkway (Modified Avenue)

Between Valley House Drive and Railroad Avenue



LEGEND

P = Parking

B = Bikeway

T = Travel Lane S = Sidewalk

NOTES:

- 1. CURB IS 0.5', GUTTER IS 1.5'.
- 2. EARTHWORK IS BASED ON 2 FOOT EXCAVATION.
- 3. DOES NOT INCLUDE WATER, SEWER, JOINT TRENCH.
- 4. DOES NOT INCLUDE ROW (CITY OWNED).
- 5. INCLUDES ENVIRONMENTAL MITIGATION (OUTSIDE DEVELOPMENT PROJECT LIMITS).
- 6. INCLUDES STORM DRAIN.



BODWAY PARKWAY Segment 1 Between Valley House Dr and Railroad Ave. Typical Street and Utility Cost Per Centerline Foot Revised Road Section: Enter Quantities Manually New Road **Roadway Section:** Length: 2600 feet Right of Way Width 56 Year to be Constructed: Project Description: New 2-lane roadway **Demolition Width** 0 feet **Roadway Excavation Depth:** 2 feet Landscape Quality Level: B ▼ **ITEM ITEM QUANTITY UNIT** UNIT TOTAL 20% CONTINGENCY **TOTAL COST** NO. COST* **ITEM COST 25% MANAGEMENT** PER CL FOOT Surface Costs: Mobilization 10.00 % 239.82 23.98 10.79 34.77 \$ \$ \$ 1 SF \$ 0.27 \$ \$ 2 Clearing & Grubbing 56 00 15 12 \$ 6 80 21 92 SF \$ Demolition 0.00 \$ 9.13 \$ 3 4 Earthwork (curb to curb) 2.51 CY \$ 14.91 \$ 37.42 \$ 16.84 \$ 54.26 5 Lime Treatment (curb to curb) 3.78 SY \$ 1.16 \$ 4.38 1.97 6.35 \$ Pavement (6"AC/13"AB) 31.00 SF \$ 182.90 \$ 82.31 265.21 6 5.90 0.00 SF \$ 7 Pavement (6" AC/18" AB) \$ 6.19 \$ \$ Overlay (2" AC) 0.00 SF \$2.39 \$ Subtotal Surface Costs per LF: \$ 382.51 Median and Frontage Costs: Mobilization 10.00 % 279.70 \$ 27.97 \$ 12.59 \$ 40.56 10 Curb & Gutter 2.00 LF \$ 26.50 \$ 53.00 \$ 23.85 \$ 76.85 11 Median Curb 0.00 LF \$ 6.14 \$ 12 PCC Sidewalk (6') 12.00 SF \$ 6.14 73.68 \$ 33.16 \$ 106.84 Street Lighting** 0.006250 EΑ 5,000.00 14.06 45.31 13 \$ \$ 31.25 \$ 14 Landscaping (5' w/ 6" curb) 9.00 SF \$ 6.50 58.50 \$ 26.33 84.83 Underground Utilities (storm drain onl 1.00 LF \$ 63.27 63.27 28.47 \$ 91.74 Subtotal Median and Frontage Costs per LF: \$ 446.13 Total Construction Cost per LF: \$ 828.64 Cost Breakdown: TOTAL ESTIMATED ROADWAY CONSTRUCTION COST OF THIS SEGMENT: \$ 994.526.00 TOTAL ESTIMATED MEDIAN AND FRONTAGE COST OF THIS SEGMENT***: \$ 1,159,938.00 TOTAL ESTIMATED ROADWAY COSTS INCLUDED IN THE FINANCE PLAN: 994,526.00 Right-of-way Acquisition and Mitigation Costs: Environmental Mitigation***** \$ 3.34 AC \$ 120,000.00 \$ 400,800.00 400,800.00 TOTAL PROJECT COST (INCLUDING R-O-W ACQUISITION and MITIGATION) **INCLUDED IN THE FINANCE PLAN:** \$ 1,395,326.00 * Estimated costs include appurtenances and other items that are a part of the ultimate road segment. Estimated

costs do not include interim items, private utility or joint trench costs, or items included in other fee programs.

^{**} Street lights are placed 160' apart on alternate sides of the street for minor roadways and on both sides for major roadways.

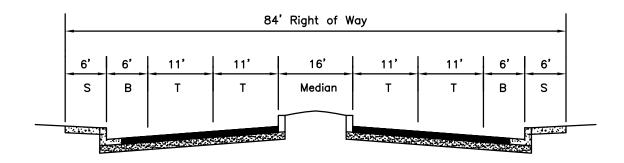
^{***} Median and frontage mitigation fee is calculated separately and, therefore, not included in the segments' total cost.

^{****} Environmental Mitigation Costs based on recent transactions for the Hazel Mitigation Bank

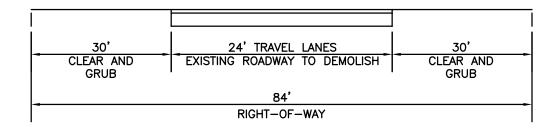
Segment 2

Dowdell Avenue 1 (Modified Parkway)

Between 375 ft North and 750 ft South of Wilfred Avenue



SHOWN WITH 4 LANES, A MEDIAN AND BIKE LANES



LEGEND

P = Parking

B = Bikeway

T = Travel Lane

S = Sidewalk

NOTES:

- EXISTING ROAD WILL BE COMPLETELY DEMOLISHED AND RECONSTRUCTED TO THE ROADWAY SECTION SPECIFICATIONS.
- 2. CURB IS 0.5', GUTTER IS 1.5'.
- 3. EARTHWORK IS BASED ON 2.0' EXCAVATION.
- 4. INCLUDES WATER, SEWER, STORM DRAIN, JOINT TRENCH.
- 5. DOES NOT INCLUDE ROW (ADJACENT TO PROPONENTS).
- 6. DOES NOT INCLUDE ENVIRONMENTAL MITIGATION (OVERLAPS WITH PROJECT SPECIFIC MITIGATION).

NOT TO SCALE



DOWDELL AVENUE 1 Segment 2 Between 375 ft North of Wilfred Av. and 750 ft South of Wilfred Av. Typical Street and Utility Cost Per Centerline Foot Roadway Section: Revised Road Section: Enter Quantities Manually Reconstruction 1125 Right of Way Width Year to be Constructed: 84 Project Description: Demolish existing roadway and reconstruct. **Demolition Width** 24 Roadway Excavation Depth: feet Landscape Quality Level: B 20% CONTINGENCY ITEM ITEM QUANTITY UNIT UNIT TOTAL TOTAL COST NO. COST* ITEM COST 25% MANAGEMENT PER CL FOOT Surface Costs: Mobilization 484.85 48.49 21.82 70.31 10.00 % \$ \$ \$ \$ Clearing & Grubbing 60.00 SF 0.27 16.20 7.29 23.49 2 \$ \$ \$ \$ 3 Pavement Removal 24.00 SF \$ 2.80 \$ 67.20 30.24 97.44 CY 35.76 115.23 Earthwork (curb to curb) 5.33 \$ 14.91 \$ 79.47 5 Lime Treatment (curb to curb) 8.00 SY \$ 1.16 \$ 9.28 \$ 4.18 13.46 53.00 SF 5.90 312.70 \$ 140.72 453.42 6 Pavement (6"AC/13"AB) \$ 7 Pavement (6" AC/18" AB) 0.00 SF \$ 6.19 \$ \$ -\$2.39 \$ Overlay (2" AC) 0.00 SF \$ 773.35 Subtotal Surface Costs per LF: \$ Median and Frontage Costs: Mobilization 10.00 % \$ 420.24 \$ 42.02 18.91 \$ 60.93 Curb & Gutter 2.00 LF \$ 26.50 \$ 53.00 \$ 23.85 \$ 76.85 11 Median Curb 2.00 LF \$ 6.14 \$ 12.28 \$ 5.53 \$ 17.81 PCC Sidewalk (6' w/ 6" curb) 11.00 SF 6.14 67.54 \$ 30.39 97.93 12 \$ \$ \$ 0.012500 5.000.00 62.50 \$ 28.13 90.63 13 Street Lighting** EΑ \$ \$ \$ Landscaping (16' w/ 2x 6" curb) 15.00 SF \$ 6.50 \$ 97.50 \$ 43.88 \$ 141.38 Underground Utilities (Jnt Trench) LF \$ 127.42 \$ 57.34 184.76 15 1.00 127.42 \$ Subtotal Median and Frontage Costs per LF: \$ 670.29 Wet Utility Costs: Storm Drain - 18" LF 28 47 91.74 16 1.00 \$ 63.27 \$ 63.27 \$ LF 49.03 49.03 \$ 22.06 71.09 Sanitary Sewer - 10" 1.00 \$ \$ \$ ΙF 32.68 Water Main - 12" 1 00 72.62 \$ 72.62 \$ 105.30 \$ Recycled Water Main -12" 1.00 LF 72.62 32.68 105.30 \$ \$ 72.62 Subtotal Wet Utility Costs per LF: \$ 373.43 Total Construction Cost per LF: \$ 1,817.07 Cost Breakdown: TOTAL ESTIMATED ROADWAY CONSTRUCTION COST OF THIS SEGMENT: \$ 870,018.75 TOTAL ESTIMATED MEDIAN AND FRONTAGE COST OF THIS SEGMENT***: \$ 754,076.25 TOTAL ESTIMATED WET UTILITY COSTS OF THIS SEGMENT**** \$ 420,108.75 TOTAL ESTIMATED ROADWAY COSTS INCLUDED IN THE FINANCE PLAN: 870,018.75 Right-of-way Acquisition and Mitigation Costs: 14 Environmental Mitigation***** 0.00 AC \$ 120,000.00 \$ \$ \$ TOTAL PROJECT COST (INCLUDING R-O-W ACQUISITION and MITIGATION) **INCLUDED IN THE FINANCE PLAN: \$** 870,018.75

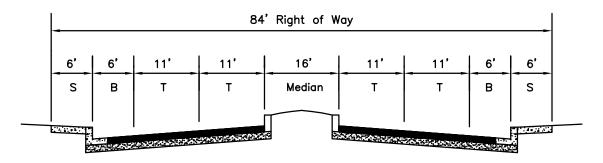
- * Estimated costs include appurtenances and other items that are a part of the ultimate road segment. Estimated costs do not include interim items, private utility or joint trench costs, or items included in other fee programs.
- ** Street lights are placed 160' apart on alternate sides of the street for minor roadways and on both sides for major roadways.
- *** Median and frontage mitigation fee is calculated separately and, therefore, not included in the segments' total cost.
- **** Wet Utility fee is calculated seperately and, therefore, not included in the segment's total cost.

^{*****} Environmental Mitigation Costs based on recent transactions for the Hazel Mitigation Bank

Segment 3

Dowdell Avenue 2 (Modified Parkway)

Between 750 ft South of Wilfred Avenue and Business Park Drive



SHOWN WITH 4 LANES, A MEDIAN AND BIKE LANES

LEGEND

P = Parking

B = Bikeway

T = Travel Lane

S = Sidewalk

NOTES:

- 1. CURB IS 0.5', GUTTER IS 1.5'.
- 2. EARTHWORK IS BASED ON 2 FOOT EXCAVATION.
- 3. INCLUDES WATER, SEWER, STORM DRAIN, JOINT TRENCH.
- 4. DOES NOT INCLUDE ROW (ADJACENT TO PROPONENTS).
- 5. DOES NOT INCLUDE ENVIRONMENTAL MITIGATION (OVERLAPS WITH PROJECT SPECIFIC MITIGATION).

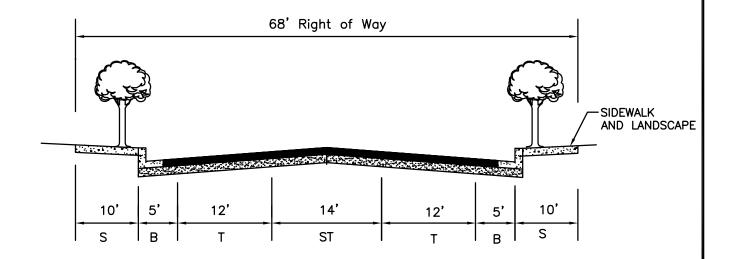
WINZLER & KELLY

DOWDELL AVENUE 2 Segment 3 Between 750 ft South of Wilfred Av. and Business Park Dr. Typical Street and Utility Cost Per Centerline Foot New Road Roadway Section: Revised Road Section: Enter Quantities Manually Length: 1250 feet Right of Way Width Year to be Constructed: 84 Project Description: New four lane roadway. **Demolition Width** 0 feet Roadway Excavation Depth: 2 feet Landscape Quality Level: B ITEM ITEM **QUANTITY UNIT** UNIT TOTAL 20% CONTINGENCY **TOTAL COST** PER CL FOOT NO. COST* ITEM COST 25% MANAGEMENT Surface Costs: Mobilization 10.00 % 424.13 \$ 42.41 \$ 19.08 \$ 61.49 SF 0.27 22.68 10.21 2 Clearing & Grubbing 84.00 \$ \$ \$ \$ 32 89 3 Demolition 0.00 SF \$ 9.13 \$ \$ Earthwork (curb to curb) 5.33 CY \$ 14.91 \$ 79.47 \$ 35.76 \$ 115.23 Lime Treatment (curb to curb) 4.18 5 8.00 SY \$ 1.16 \$ 9.28 \$ \$ 13.46 Pavement (6"AC/13" AB) 53.00 SF \$ 5.90 \$ 312.70 140.72 \$ 453.42 6 \$ \$ 7 Pavement (6" AC/18" AB) 0.00 SF \$ 6 19 \$ \$ 8 Overlay (2" AC) 0.00 SF \$2.39 \$ \$ \$ Subtotal Surface Costs per LF: \$ 676.49 **Median and Frontage Costs:** Mobilization 10.00 420.24 42.02 18.91 \$ 60.93 % \$ \$ \$ LF 53.00 10 Curb & Gutter 2.00 26.50 \$ 23.85 76.85 \$ \$ \$ 11 Median Curb 2.00 LF \$ 6.14 \$ 12.28 \$ 5.53 \$ 17.81 12 PCC Sidewalk (6' w/ 6" curb) 11.00 SF \$ 6.14 \$ 67.54 \$ 30.39 \$ 97.93 0.012500 5,000.00 62.50 28.13 90.63 13 Street Lighting** \$ \$ \$ EΑ \$ 14 Landscaping (16' w/ 2x 6" curb) 15.00 SF \$ 6.50 \$ 97.50 43.88 \$ 141.38 \$ Underground Utilities (Jnt Trench) 1.00 LF 127.42 127.42 57.34 184.76 15 \$ \$ \$ \$ Subtotal Median and Frontage Costs per LF: \$ 670.29 Wet Utility Costs: 16 Storm Drain - 18" 1.00 LF \$ 63.27 \$ 63.27 28.47 \$ 91.74 17 Sanitary Sewer - 10" 1.00 LF \$ 49.03 \$ 49.03 \$ 22.06 \$ 71.09 32.68 105.30 18 Water Main - 12' 1 00 ΙF \$ 72 62 \$ 72 62 \$ \$ Recycled Water Main -12" 1.00 LF \$ 72.62 \$ 72.62 \$ 32.68 \$ 105.30 Subtotal Wet Utility Costs per LF: \$ 373.43 1,720.21 Total Construction Cost per LF: \$ Cost Breakdown: TOTAL ESTIMATED ROADWAY CONSTRUCTION COST OF THIS SEGMENT: \$ 845,612.50 TOTAL ESTIMATED MEDIAN AND FRONTAGE COST OF THIS SEGMENT***: \$ 837.862.50 TOTAL ESTIMATED WET UTILITY COSTS OF THIS SEGMENT**** \$ 466,787.50 TOTAL ESTIMATED ROADWAY COSTS INCLUDED IN THE FINANCE PLAN: 845,612.50 Right-of-way Acquisition and Mitigation Costs: 14 Environmental Mitigation***** 0.00 AC \$ 120,000.00 \$ \$ \$ TOTAL PROJECT COST (INCLUDING R-O-W ACQUISITION and MITIGATION) **INCLUDED IN THE FINANCE PLAN:** 845,612.50 * Estimated costs include appurtenances and other items that are a part of the ultimate road segment. Estimated costs do not include interim items, private utility or joint trench costs, or items included in other fee programs. Street lights are placed 160' apart on alternate sides of the street for minor roadways and on both sides for major roadways. *** Median and frontage mitigation fee is calculated separately and, therefore, not included in the segments' total cost. **** Wet Utility fee is calculated seperately and, therefore, not included in the segment's total cost. ***** Environmental Mitigation Costs based on recent transactions for the Hazel Mitigation Bank

Segment 4

Dowdell Avenue 3 (Modified Parkway)

Between Business Park Drive and Martin Avenue



LEGEND

P = Parking

B = Bikeway

T = Travel Lane

S = Sidewalk

ST = Shared Turn lane

NOTES:

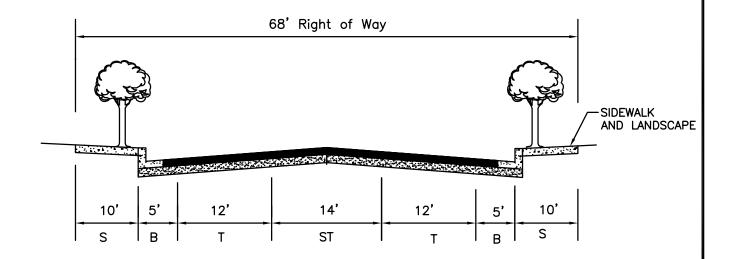
- 1. CURB IS 0.5', GUTTER IS 1.5'.
- 2. EARTHWORK IS BASED ON 2 FOOT EXCAVATION.

DOWDELL AVENUE 3 Segment 4 Between Business Park Dr and 850 feet South of Business Park Drive Typical Street and Utility Cost Per Centerline Foot Roadway Section: Revised Road Section: Enter Quantities Manually ▼ New Road 850 feet Year to be Constructed: Right of Way Width 68 Project Description: New 2 lane roadway. **Demolition Width** 0 feet Roadway Excavation Depth: 2 feet Landscape Quality Level: B ITEM ITEM QUANTITY UNIT UNIT TOTAL 20% CONTINGENCY TOTAL COST 25% MANAGEMENT NO. COST* **ITEM COST** PER CL FOOT Surface Costs: Mobilization 10.00 342.97 34.30 15.44 49.74 % \$ \$ \$ Clearing & Grubbing 68.00 SF \$ 0.27 \$ 18.36 \$ 8.26 \$ 26.62 0.00 SF \$ 9 13 \$ 3 Demolition \$ \$ Earthwork (curb to curb) 3.55 CY \$ 14.91 52.93 23.82 \$ 76.75 4 \$ \$ \$ 2.78 5 Lime Treatment (curb to curb) 5.33 SY 1.16 \$ 6.18 \$ \$ 8.96 6 Pavement (6'AC/13'AB) 45.00 SF \$ 5.90 \$ 265.50 \$ 119.48 \$ 384.98 7 Pavement (6" AC/18" AB) 0.00 SF \$ 6.19 \$ \$ \$ SF \$2.39 8 Overlay (2" AC) \$ \$ \$ Subtotal Surface Costs per LF: \$ 547.05 Median and Frontage Costs: 9 Mobilization 10.00 % \$ 362.82 \$ 36.28 \$ 16.33 \$ 52.61 10 Curb & Gutter 2.00 LF \$ 26.50 \$ 53.00 \$ 23.85 76.85 0.00 LF \$ \$ 11 Median Curb 6.14 \$ 12 PCC Sidewalk (5' each side) 10.00 SF \$ 6.14 \$ 61.40 \$ 27.63 \$ 89.03 EΑ Street Lighting** 0.012500 5.000.00 62 50 \$ 28.13 \$ 90.63 13 \$ \$ Landscaping (5' w/ 6" curb) 9.00 SF \$ 6.50 \$ 58.50 \$ 26.33 \$ 84.83 Underground Utilities (Jnt Trench) ΙF \$ 127.42 \$ 57.34 \$ 184 76 1.00 127.42 \$ Subtotal Median and Frontage Costs per LF: \$ 578.71 Wet Utility Costs: 28.47 1.00 LF 63.27 63.27 \$ 91.74 Storm Drain - 18" \$ Sanitary Sewer - 10" 1.00 LF \$ 49.03 \$ 49.03 \$ 22.06 \$ 71.09 Water Main - 12" 1.00 ΙF \$ 72 62 \$ 72.62 \$ 32.68 \$ 105.30 Recycled Water Main -12" 1.00 LF \$ 72.62 \$ 72.62 \$ 32.68 \$ 105.30 Subtotal Wet Utility Costs per LF: \$ 373.43 Total Construction Cost per LF: \$ 1,704.47 Cost Breakdown: TOTAL ESTIMATED ROADWAY CONSTRUCTION COST OF THIS SEGMENT: \$ 464.992.50 TOTAL ESTIMATED MEDIAN AND FRONTAGE COST OF THIS SEGMENT***: \$ 491.903.50 TOTAL ESTIMATED WET UTILITY COSTS OF THIS SEGMENT**** \$ 317.415.50 TOTAL ESTIMATED ROADWAY COSTS INCLUDED IN THE FINANCE PLAN: \$ 464,992.50 Right-of-way Acquisition and Mitigation Costs: 14 Environmental Mitigation***** 1.33 AC \$ 120,000.00 \$ 159,600.00 \$ 159.600.00 15 Right of Way AC \$ 300,000.00 \$ 399,000.00 \$ 179,550.00 \$ 578,550.00 1.33 TOTAL PROJECT COST (INCLUDING R-O-W ACQUISITION and MITIGATION) INCLUDED IN THE FINANCE PLAN: 1.203.142.50 * Estimated costs include appurtenances and other items that are a part of the ultimate road segment. Estimated costs do not include interim items, private utility or joint trench costs, or items included in other fee programs. ** Street lights are placed 160' apart on alternate sides of the street for minor roadways and on both sides for major roadways. *** Median and frontage mitigation fee is calculated separately and, therefore, not included in the segments' total cost. **** Wet Utility fee is calculated seperately and, therefore, not included in the segment's total cost. ***** Environmental Mitigation Costs based on recent transactions for the Hazel Mitigation Bank

Segment 5

Dowdell Avenue 4 (Modified Parkway)

Between 850' South of Business Park
Drive and Martin Avenue



LEGEND

P = Parking

B = Bikeway

T = Travel Lane S = Sidewalk

ST = Shared Turn lane

NOTES:

- 1. CURB IS 0.5', GUTTER IS 1.5'.
- 2. EARTHWORK IS BASED ON 2 FOOT EXCAVATION.
- 3. INCLUDES WATER, SEWER, STORM DRAIN, JOINT TRENCH.
- 4. DOES NOT INCLUDE ROW (ADJACENT TO PROPONENTS).
- DOES NOT INCLUDE ENVIRONMENTAL MITIGATION (OVERLAPS WITH PROJECT SPECIFIC MITIGATION).



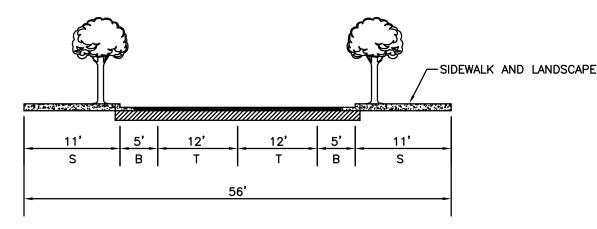
DOWDELL AVENUE 4 Segment 5 Between 850 feet South of Business Park Drive and Martin Avenue Typical Street and Utility Cost Per Centerline Foot Roadway Section: Revised Road Section: Enter Quantities Manually New Road 1075 feet Lenath Right of Way Width 68 Year to be Constructed: Project Description: New 2 lane roadway. **Demolition Width** 0 feet 2 Roadway Excavation Depth: feet Landscape Quality Level: B ITEM ITEM QUANTITY UNIT UNIT TOTAL 20% CONTINGENCY TOTAL COST NO. COST* **ITEM COST** 25% MANAGEMENT PER CL FOOT Surface Costs: Mobilization 10.00 % \$ 342.97 \$ 34.30 \$ 15.44 \$ 49.74 68.00 SF \$ 0.27 18.36 \$ 8.26 \$ 26.62 2 Clearing & Grubbing \$ 3 Demolition 0.00 SF \$ 9.13 \$ \$ _ -\$ 76.75 4 Earthwork (curb to curb) 3.55 CY 14.91 \$ 52.93 \$ 23.82 \$ 5 Lime Treatment (curb to curb) 5.33 SY \$ 1.16 6.18 2.78 8.96 \$ \$ \$ 6 Pavement (6'AC/13'AB) 45.00 SF \$ 5.90 \$ 265.50 \$ 119.48 \$ 384.98 7 0.00 SF \$ 6.19 \$ \$ \$ Pavement (6" AC/18" AB) 8 Overlay (2" AC) SF \$2.39 \$ \$ \$ 547.05 Subtotal Surface Costs per LF: \$ Median and Frontage Costs: Mobilization 10.00 % \$ 362.82 36.28 16.33 \$ 52.61 Curb & Gutter 26.50 53.00 23.85 76.85 10 2.00 LF \$ \$ \$ \$ LF 11 0.00 \$ 6.14 \$ \$ _ _ SE 6.14 \$ 89.03 12 PCC Sidewalk (5' each side) 10.00 \$ \$ 61.40 \$ 27.63 13 Street Lighting** 0.012500 EΑ \$ 5,000.00 \$ 62.50 \$ 28.13 90.63 14 Landscaping (5' w/ 6" curb) 9.00 SF \$ 6.50 \$ 58.50 \$ 26.33 \$ 84.83 127.42 127.42 \$ 184.76 15 Underground Utilities (Jnt Trench) 1.00 LF \$ \$ 57.34 \$ Subtotal Median and Frontage Costs per LF: \$ 578.71 Wet Utility Costs: 16 Storm Drain - 18" 1.00 LF \$ 63.27 \$ 63.27 28.47 \$ 91.74 \$ 22 06 \$ 71.09 17 Sanitary Sewer - 10" 1.00 LF \$ 49.03 \$ 49.03 32.68 105.30 18 Water Main - 12' 1.00 ΙF \$ 72 62 \$ 72 62 \$ \$ Recycled Water Main -12" 1.00 LF \$ 72.62 \$ 72.62 \$ 32.68 \$ 105.30 Subtotal Wet Utility Costs per LF: \$ 373.43 Total Construction Cost per LF: \$ 1,499.19 Cost Breakdown: TOTAL ESTIMATED ROADWAY CONSTRUCTION COST OF THIS SEGMENT: \$ 588,078.75 TOTAL ESTIMATED MEDIAN AND FRONTAGE COST OF THIS SEGMENT***: \$ 622.113.25 TOTAL ESTIMATED WET UTILITY COSTS OF THIS SEGMENT**** \$ 401,437.25 TOTAL ESTIMATED ROADWAY COSTS INCLUDED IN THE FINANCE PLAN: 588,078.75 Right-of-way Acquisition and Mitigation Costs: 14 Environmental Mitigation***** 0.00 AC \$ 120,000.00 \$ \$ \$ TOTAL PROJECT COST (INCLUDING R-O-W ACQUISITION and MITIGATION) INCLUDED IN THE FINANCE PLAN: 588,078.75 * Estimated costs include appurtenances and other items that are a part of the ultimate road segment. Estimated costs do not include interim items, private utility or joint trench costs, or items included in other fee programs. ** Street lights are placed 160' apart on alternate sides of the street for minor roadways and on both sides for major roadways. *** Median and frontage mitigation fee is calculated separately and, therefore, not included in the segments' total cost. **** Wet Utility fee is calculated seperately and, therefore, not included in the segment's total cost.

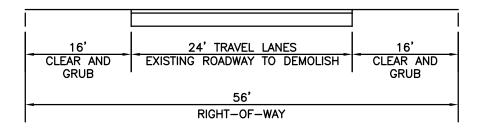
***** Environmental Mitigation Costs based on recent transactions for the Hazel Mitigation Bank

Segment 6

Keiser Avenue (Modified Avenue)

Between Snyder Lane and Petaluma Hill Road





LEGEND

P = Parking

B = Bikeway

T = Travel Lane

S = Sidewalk

NOTES:

- EXISTING ROAD WILL BE COMPLETELY DEMOLISHED AND RECONSTRUCTED TO THE ROADWAY SECTION SPECIFICATIONS.
- 2. CURB IS 0.5', GUTTER IS 1.5'.
- 3. EARTHWORK IS BASED ON 2.0' EXCAVATION.
- 4. INCLUDES JOINT TRENCH. DOES NOT INCLUDE WATER, SEWER, STORM DRAINS.
- 5. DOES NOT INCLUDE ROW (ADJACENT TO PROPONENTS).
- DOES NOT INCLUDE ENVIRONMENTAL MITIGATION (OVERLAPS WITH PROJECT MITIGATION).

NOT TO SCALE



KEISER AVENUE Segment 6 Between Snyder Ln and Petaluma Hill Rd Typical Street and Utility Cost Per Centerline Foot Roadway Section: Revised Road Section: Enter Quantities Manually Reconstruction Length: 5400 feet Right of Way Width Year to be Constructed: Project Description: Demolish existing roadway and reconstruct. **Demolition Width** 24 feet Roadway Excavation Depth: feet Landscape Quality Level: B ITEM ITEM QUANTITY UNIT UNIT TOTAL 20% CONTINGENCY **TOTAL COST** NO. ITEM COST 25% MANAGEMENT PER CL FOOT COST* Surface Costs: 1 Mobilization 10.00 % \$ 300.54 30.05 13.52 43.57 Clearing & Grubbing 32.00 SF \$ 0.27 \$ 8.64 \$ 3.89 12.53 3 Pavement Removal 24.00 SF \$ 2.80 67.20 30.24 97.44 \$ 4 Earthwork (curb to curb) 2.51 CY 14.91 37.42 16.84 54.26 SY \$ 5 Lime Treatment (curb to curb) 3.78 1.16 \$ 4.38 \$ 1.97 \$ 6.35 6 Pavement (6"AC/13"AB) 31.00 SF \$ 5.90 \$ 182.90 \$ 82.31 265.21 7 0.00 SF \$ 6.19 \$ \$ \$ Pavement (6" AC/18" AB) 8 Overlay (2" AC) 0.00 SF \$2.39 \$ \$ \$ Subtotal Surface Costs per LF: \$ 479.36 **Median and Frontage Costs:** Mobilization 10.00 % \$ 343.85 \$ 34.39 \$ 15.48 49.87 9 10 Curb & Gutter 2.00 LF \$ 26.50 53.00 \$ 23.85 \$ 76.85 11 Median Curb 0.00 LF \$ 6.14 \$ \$ \$ 73.68 PCC Sidewalk (6' each side) 12.00 SF \$ 33.16 106.84 12 6.14 \$ 13 Street Lighting** 0.006250 EΑ \$ 5,000.00 31.25 14.06 45.31 14 Landscaping (5' w/ 6" curb) 9.00 SF \$ 6.50 58.50 26.33 \$ 84.83 LF 15 **Underground Utilities** 1.00 \$ 127.42 \$ 127.42 \$ 57.34 184.76 548.46 Subtotal Median and Frontage Costs per LF: \$ 1,027.82 Total Construction Cost per LF: \$ Cost Breakdown: TOTAL ESTIMATED ROADWAY CONSTRUCTION COST OF THIS SEGMENT: \$ 2,588,544.00 TOTAL ESTIMATED MEDIAN AND FRONTAGE COST OF THIS SEGMENT***: \$ 2,961,684.00 TOTAL ESTIMATED ROADWAY COSTS INCLUDED IN THE FINANCE PLAN: 2,588,544.00 Right-of-way Acquisition and Mitigation Costs: Environmental Mitigation***** 0.00 AC \$ 120,000.00 TOTAL PROJECT COST (INCLUDING R-O-W ACQUISITION and MITIGATION) **INCLUDED IN THE FINANCE PLAN:** \$ 2,588,544.00 * Estimated costs include appurtenances and other items that are a part of the ultimate road segment. Estimated costs do not include interim items, private utility or joint trench costs, or items included in other fee programs.

^{**} Street lights are placed 160' apart on alternate sides of the street for minor roadways and on both sides for major roadways.

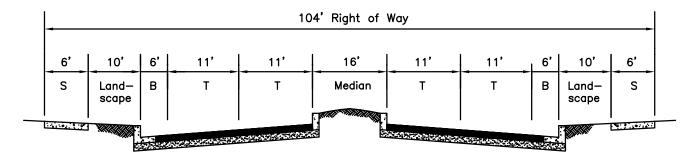
^{***} Median and frontage mitigation fee is calculated separately and, therefore, not included in the segments' total cost.

^{****} Environmental Mitigation Costs based on recent transactions for the Hazel Mitigation Bank

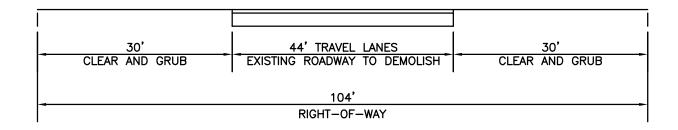
Segment 7

Rohnert Park Expressway (Modified Parkway)

Between Snyder Lane and Petaluma Hill Road



SHOWN WITH 4 LANES, A MEDIAN AND BIKE LANES



LEGEND

P = Parking

B = Bikeway

T = Travel Lane S = Sidewalk

NOTES:

- EXISTING ROADWAY WILL BE COMPLETELY DEMOLISHED & RECONSTRUCTED TO ROADWAY SECTION SPECIFICATIONS.
- 2. CURB IS 0.5', GUTTER IS 1.5'.
- 3. EARTHWORK IS BASED ON 2 FOOT EXCAVATION.
- 4. INCLUDES JOINT TRENCH. DOES NOT INCLUDE WATER, SEWER, STORM DRAIN.
- DOES NOT INCLUDE ROW (ADJACENT TO PROPONENTS).
- 6. INCLUDES ENVIRONMENTAL MITIGATION FOR FRONTAGE ALONG SSU.

ROHNERT PARK EXPRESSWAY Segment 7 Between Snyder Ln. and Petaluma Hill Rd. Typical Street and Utility Cost Per Centerline Foot **Roadway Section:** Parkway - 104' right-of-way Reconstruction Length 5400 feet Year to be Constructed: Right of Way Width 104 Revised Section at Commercial Core entry; Project Description: **Demolition Width** 44 feet 100' r-o-w, 16' landscaped median. Roadway Excavation Depth: 2 feet Landscape Quality Level: B ITEM ITEM QUANTITY UNIT UNIT TOTAL 20% CONTINGENCY **TOTAL COST** NO. COST* ITEM COST 25% MANAGEMENT PER CL FOOT Surface Costs: Mobilization 10.00 % 540.85 \$ 54.09 \$ 24.34 78.43 1 2 Clearing & Grubbing 60.00 SF \$ 0.27 \$ 16.20 \$ 7.29 \$ 23.49 Pavement Removal 44.00 SF \$ 2.80 \$ 123.20 \$ 55.44 \$ 178.64 4 5.33 14.91 \$ 79.47 \$ 35.76 115.23 Earthwork (curb to curb) CY 5 Lime Treatment (curb to curb) 8.00 SY 1.16 \$ 9.28 \$ 4.18 13.46 53.00 SF 5.90 312.70 \$ 140.72 \$ 453.42 6 Pavement (6"AC/13"AB) \$ \$ 0.00 \$ \$ \$ Pavement (6" AC/18" AB) SF 6.19 0.00 SF \$2.39 \$ \$ \$ 8 Overlay (2" AC) 862.67 Subtotal Surface Costs per LF: \$ Median and Frontage Costs: Mobilization 10.00 % 549.88 \$ 54.99 \$ 24.75 79.74 \$ \$ LF 26.50 53.00 23.85 76.85 10 Curb & Gutter 2.00 \$ \$ \$ \$ 17.81 11 Median Curb 2 00 6.14 \$ 12.28 \$ 5.53 \$ PCC Sidewalk (6' each side) 12.00 SF 6.14 \$ 73.68 \$ 33.16 106.84 13 Street Lighting** 0.012500 EΑ \$ 5,000.00 \$ 62.50 \$ 28.13 90.63 14 Landscaping (median + 10' less curbs 34.00 SF \$ 6.50 \$ 221.00 \$ 99.45 320.45 LF \$ Underground Utilities 1.00 127.42 \$ 127.42 \$ 184.76 15 57.34 \$ Subtotal Median and Frontage Costs per LF: \$ 877.08 Total Construction Cost per LF: \$ 1,739.75 Cost Breakdown: TOTAL ESTIMATED ROADWAY CONSTRUCTION COST OF THIS SEGMENT: \$ 4,658,418.00 TOTAL ESTIMATED MEDIAN AND FRONTAGE COST OF THIS SEGMENT***: \$ 4,736,232.00 TOTAL ESTIMATED ROADWAY COSTS INCLUDED IN THE FINANCE PLAN: 4,658,418.00 Right-of-way Acquisition and Mitigation Costs: \$ 120,000.00 | \$ 223,200.00 | \$ Environmental Mitigation***** 1.86 AC \$ 223,200.00 TOTAL PROJECT COST (INCLUDING R-O-W ACQUISITION and MITIGATION) **INCLUDED IN THE FINANCE PLAN:** \$ 4,881,618.00 * Estimated costs include appurtenances and other items that are a part of the ultimate road segment. Estimated costs do not include interim items, private utility or joint trench costs, or items included in other fee programs. ** Street lights are placed 160' apart on alternate sides of the street for minor roadways and on both sides for major roadways.

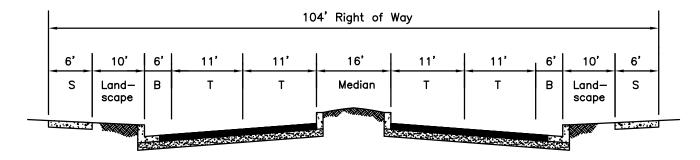
^{***} Median and frontage mitigation fee is calculated separately and, therefore, not included in the segments' total cost.

^{****} Environmental Mitigation Costs based on recent transactions for the Hazel Mitigation Bank

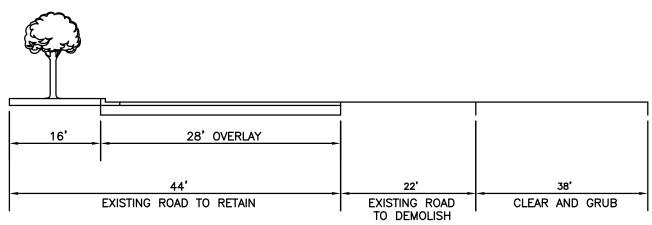
Segment 8

Snyder Lane 1 (Parkway)

Between South Side of "G" Section and North Side of Creekside Middle School



SHOWN WITH 4 LANES, A MEDIAN AND BIKE LANES



LEGEND

P = Parking

B = Bikeway

T = Travel Lane

S = Sidewalk

NOTES:

- 1. OVERLAY THICKNESS VARIES IN ORDER TO ACCOMMODATE CROSS SLOPE.
- 2. CLEARING AND GRUBBING IS DETERMINED BY WIDTH OF NEW ROAD TO BE BUILT MINUS DEMOLITION WIDTH AND EXISTING ROAD TO BE RETAINED.
- 3. CURB IS 0.5', GUTTER IS 1.5'.
- 4. EARTHWORK IS BASED ON 2 FOOT EXCAVATION.
- 5. INCLUDES JOINT TRENCH. DOES NOT INCLUDE WATER, SEWER, STORM DRAIN.
- 6. DOES NOT INCLUDE ROW (ADJACENT TO PROPONENTS).
- DOES NOT INCLUDE ENVIRONMENTAL MITIGATION (OVERLAPS PROJECT MITIGATION).

NOT TO SCALE

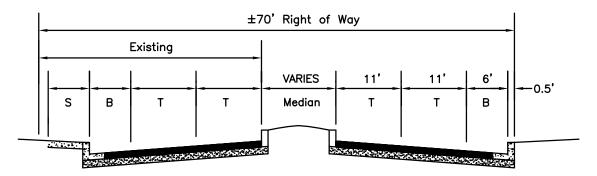
WINZLER & KELLY

SNYDER LANE 1 Segment 8 Between South Side of "G" Section and North Side of Creekside Middle School Typical Street and Utility Cost Per Centerline Foot Widening **Roadway Section:** Parkway - 104' right-of-way Length: 4400 feet Right of Way Width 104 Year to be Constructed: Project Description: Retain west side landscape, sidewalk, curb & **Demolition Width** 22 feet gutter, and travel lane. Demolish 14' travel Roadway Excavation Depth: feet lane, 8' Class I bikeway on east side. Expand new road section to the east (see General Plan Landscape Quality Level: B ▾ Figure 3.1-4). ITEM ITEM QUANTITY UNIT UNIT TOTAL 20% CONTINGENCY **TOTAL COST** NO. ITEM COST 25% MANAGEMENT PER CL FOOT COST* Surface Costs: 1 Mobilization 10.00 % \$ 468.02 \$ 46.80 \$ 21.06 67.86 Clearing & Grubbing 38.00 SF \$ 0.27 \$ 10.26 \$ 4.62 14.88 9.13 3 Demolition 22.00 SF \$ \$ 200.86 \$ 90.39 291.25 \$ 4 Earthwork (curb to curb) 3.26 CY 14.91 \$ 48.61 \$ 21.87 70.48 4.89 SY \$ \$ \$ 8.22 5 Lime Treatment (curb to curb) 1.16 5.67 2.55 \$ 6 Pavement (6"AC/13"AB) 23.00 SF \$ 5.90 \$ 135.70 \$ 61.07 \$ 196.77 0.00 SF \$ 6.19 \$ \$ \$ Pavement (6" AC/18" AB) 8 SF \$ \$ \$ Overlay (2" AC) 28.00 \$2.39 66.92 30.11 97.03 Subtotal Surface Costs per LF: \$ 746.49 Median and Frontage Costs: Mobilization 10.00 % \$ 393.54 \$ 39.35 \$ 17.71 \$ 57.06 10 Curb & Gutter 1.00 LF \$ 26.50 \$ 26.50 \$ 11.93 \$ 38.43 11 Median Curb 2.00 LF \$ 6.14 \$ 12.28 \$ 5.53 \$ 17.81 12 PCC Sidewalk (6' one side) 6.00 SF \$ 6.14 \$ 36.84 \$ 16.58 53.42 13 Street Lighting** 0.006250 EΑ \$ 5,000.00 \$ 31.25 \$ 14.06 45.31 14 Landscaping (median + 10' less cur 24.50 SF \$ 6.50 \$ 159.25 \$ 71.66 \$ 230.91 LF 15 **Underground Utilities** 1.00 \$ 127.42 \$ 127.42 \$ 57.34 \$ 184.76 Subtotal Median and Frontage Costs per LF: \$ 627.70 Total Construction Cost per LF: \$ 1,374.19 Cost Breakdown: TOTAL ESTIMATED ROADWAY CONSTRUCTION COST OF THIS SEGMENT: \$ 3,284,556.00 TOTAL ESTIMATED MEDIAN AND FRONTAGE COST OF THIS SEGMENT***: \$ 2,761,880.00 3,284,556.00 TOTAL ESTIMATED ROADWAY COSTS INCLUDED IN THE FINANCE PLAN: Right-of-way Acquisition and Mitigation Costs: Environmental Mitigation***** 0.00 AC 120,000.00 \$ \$ TOTAL PROJECT COST (INCLUDING R-O-W ACQUISITION and MITIGATION) **INCLUDED IN THE FINANCE PLAN:** \$ 3,284,556.00 * Estimated costs include appurtenances and other items that are a part of the ultimate road segment. Estimated costs do not include interim items, private utility or joint trench costs, or items included in other fee programs. ** Street lights are placed 160' apart on alternate sides of the street for minor roadways and on both sides for major roadways. *** Median and frontage mitigation fee is calculated separately and, therefore, not included in the segments' total cost. **** Environmental Mitigation Costs based on recent transactions for the Hazel Mitigation Bank

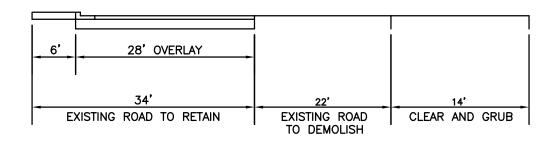
Segment 9

Snyder Lane 2 (Modified Parkway)

Between South Side of Creek Side Middle School and Medical Center Drive



SHOWN WITH 4 LANES, A MEDIAN AND BIKE LANES



LEGEND

P = Parking

B = Bikeway

T = Travel Lane

S = Sidewalk

NOTES:

- 1. OVERLAY THICKNESS VARIES IN ORDER TO ACCOMMODATE CROSS SLOPE.
- 2. CLEARING AND GRUBBING IS DETERMINED BY WIDTH OF NEW ROAD TO BE BUILT MINUS DEMOLITION WIDTH AND EXISTING ROAD TO BE RETAINED.
- 3. CURB IS 0.5', GUTTER IS 1.5'.
- 4. EARTHWORK IS BASED ON 2 FOOT EXCAVATION.
- MEDIAN WIDTH MAY BE ADJUSTED BASED ON ACTUAL R-O-W.
- 6. DOES NOT INCLUDE UTILITIES (IN PLACE).
- 7. DOES NOT INCLUDE ROW (CITY OWNED).
- DOES NOT INCLUDE ENVIRONMENTAL MITIGATION (FULLY DEVELOPED FRONTAGE).



SNYDER LANE 2 Segment 9 Between South Side of Creek Side Middle School and Medical Center Dr. Typical Street and Utility Cost Per Centerline Foot Roadway Section: Revised Road Section: Enter Quantities Manually Widening 1100 feet Year to be Constructed: Right of Way Width 70 Retain west side landscape, sidewalk, curb & Project Description: **Demolition Width** 22 feet gutter, and travel lane. Demolish 14' travel Roadway Excavation Depth: 2 feet lane, 8' Class I bikeway on east side. Expand new road section to the east (see General Plan Landscape Quality Level: B Figure 3.1-4). ITEM ITEM QUANTITY UNIT UNIT TOTAL 20% CONTINGENCY **TOTAL COST** NO. COST* ITEM COST 25% MANAGEMENT PER CL FOOT Surface Costs: Mobilization 10.00 % \$ 472.36 \$ 47.24 \$ 21.26 68.50 1 2 Clearing & Grubbing 14.00 SF \$ 0.27 \$ 3.78 \$ 1.70 \$ 5 48 22.00 SF \$ 9.13 \$ 200.86 \$ 90.39 291.25 3 Demolition 4 Earthwork (curb to curb) 2.67 CY \$ 14.91 39.81 17.91 57.72 5 Lime Treatment (curb to curb) 4.00 SY \$ 1.16 \$ 4.64 2.09 6.73 SF Pavement (6"AC/13"AB) 26.50 \$ 5.90 156.35 \$ 70.36 226.71 6 \$ \$ 0.00 SF \$ 6.19 \$ \$ Pavement (6" AC/18" AB) 28.00 SF \$2.39 \$ \$ 97.03 8 Overlay (2" AC) 66.92 30.11 \$ 753.42 Subtotal Surface Costs per LF: \$ Median and Frontage Costs: Mobilization 10.00 % 204.37 20.44 \$ 9.20 29.64 \$ LF 26.50 26.50 11.93 38.43 10 Curb & Gutter 1.00 \$ \$ \$ LF \$ 5.53 17.81 11 Median Curb 2 00 6.14 \$ 12 28 \$ PCC Sidewalk 6.00 SF \$ 6.14 36.84 16.58 53.42 13 Street Lighting** 0.006250 EΑ \$ 5,000.00 31.25 \$ 14.06 45.31 14 Landscaping (median w/ 6" curbs) 15.00 SF \$ 6.50 \$ 97.50 \$ 43.88 141.38 LF \$ 15 **Underground Utilities** 0.00 127.42 \$ \$ Subtotal Median and Frontage Costs per LF: \$ 325.99 Total Construction Cost per LF: \$ 1,079.41 Cost Breakdown: TOTAL ESTIMATED ROADWAY CONSTRUCTION COST OF THIS SEGMENT: \$ 828,762.00 TOTAL ESTIMATED MEDIAN AND FRONTAGE COST OF THIS SEGMENT***: \$ 358,589.00 TOTAL ESTIMATED ROADWAY COSTS INCLUDED IN THE FINANCE PLAN: 828,762.00 Right-of-way Acquisition and Mitigation Costs: \$ 120,000.00 Environmental Mitigation***** 0.00 AC \$ \$ TOTAL PROJECT COST (INCLUDING R-O-W ACQUISITION and MITIGATION) **INCLUDED IN THE FINANCE PLAN:** 828,762.00 * Estimated costs include appurtenances and other items that are a part of the ultimate road segment. Estimated costs do not include interim items, private utility or joint trench costs, or items included in other fee programs. ** Street lights are placed 160' apart on alternate sides of the street for minor roadways and on both sides for major roadways.

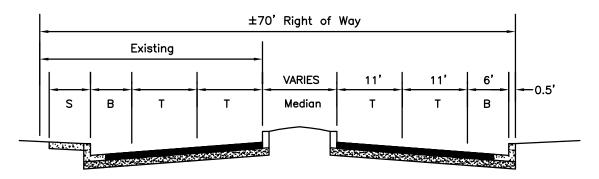
^{***} Median and frontage mitigation fee is calculated separately and, therefore, not included in the segments' total cost.

^{****} Environmental Mitigation Costs based on recent transactions for the Hazel Mitigation Bank

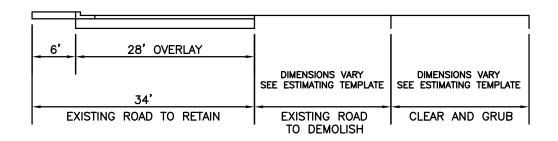
Segment 10

Snyder Lane 3 (Parkway)

Between Medical Center Drive and Southwest Boulevard



SHOWN WITH 4 LANES, A MEDIAN AND BIKE LANES



LEGEND

P = Parking

B = Bikeway

T = Travel Lane

S = Sidewalk

NOTES:

- OVERLAY THICKNESS VARIES IN ORDER TO ACCOMODATE CROSS SLOPE.
- CLEARING AND GRUBBING IS DETERMINED BY WIDTH OF NEW ROAD TO BE BUILT MINUS DEMOLITION WIDTH AND EXISTING ROAD TO BE RETAINED.
- CURB IS 0.5', GUTTER IS 1.5'.
- EARTHWORK IS BASED ON 2 FOOT EXCAVATION.
- DOES NOT INCLUDE UTILITIES (GENERALLY IN-PLACE ESTS PHASE 3 SEPARATELY PRICED).
- DOES NOT INCLUDE ROW (CITY OWNED).
- DOES NOT INCLUDE ENVIRONMENTAL MITIGATION (DEVELOPED FRONTAGE).

WINZLER & KELLY

SNYDER LANE 3 Segment 10 Between Medical Center Drive and Southwest Blvd Typical Street and Utility Cost Per Centerline Foot Roadway Section: Parkway - 104' right-of-way Widening Length: 2900 feet Right of Way Width 70 Year to be Constructed: Retain west side landscape, sidewalk, curb & **Demolition Width** 18 Project Description: feet gutter. Reconstruct existing roadway. Expand Roadway Excavation Depth: feet new road section to the east (see General Plan Landscape Quality Level: B Figure 3.1-4). Relocate but do not underground utilities from Copeland Creek to Southwest Blvd ITEM ITEM QUANTITY UNIT UNIT TOTAL 20% CONTINGENCY **TOTAL COST** COST* 25% MANAGEMENT NO. ITEM COST PER CL FOOT Surface Costs: Mobilization 10.00 % 436.92 43.69 19.66 63.35 1 \$ 2 Clearing & Grubbing 18.00 SF \$ 0.27 \$ 4.86 \$ 2.19 \$ 7.05 SF \$ 164.34 73.95 238.29 3 Demolition 18.00 9.13 \$ \$ \$ 14.91 39.81 17.91 57.72 4 Earthwork (curb to curb) 2.67 CY \$ 5 Lime Treatment (curb to curb) 4.00 SY \$ 1.16 4.64 \$ 2.09 6.73 6 Pavement (6"AC/13"AB) 26.50 SF \$ 5.90 156.35 \$ 70.36 \$ 226.71 7 Pavement (6" AC/18" AB) 0.00 SF \$ 6.19 \$ SF \$2.39 \$ \$ 8 Overlay (2" AC) 28.00 66.92 \$ 97.03 30.11 Subtotal Surface Costs per LF: \$ 696.88 Median and Frontage Costs: 204.37 Mobilization 10.00 % \$ 20 44 \$ 9 20 29.64 LF 10 Curb & Gutter 1.00 \$ 26.50 \$ 26.50 \$ 11.93 \$ 38.43 11 Median Curb 2.00 LF \$ 6.14 \$ 12.28 5.53 \$ 17.81 PCC Sidewalk SF \$ 6.14 36.84 16.58 53.42 12 6.00 \$ \$ Street Lighting** 0.006250 EΑ \$ 5,000.00 31.25 14.06 45.31 13 14 _andscaping (median w/ 6" curb) 15.00 SF \$ 6.50 97.50 \$ 43.88 141.38 \$ 15 **Underground Utilities** 0.00 LF \$ 127.42 \$ Subtotal Median and Frontage Costs per LF: \$ 325.99 Total Construction Cost per LF: \$ 1,022.87 Cost Breakdown: TOTAL ESTIMATED ROADWAY CONSTRUCTION COST OF THIS SEGMENT: \$ 2,020,952.00 TOTAL ESTIMATED MEDIAN AND FRONTAGE COST OF THIS SEGMENT***: \$ 945,371.00 TOTAL ESTIMATED ROADWAY COSTS INCLUDED IN THE FINANCE PLAN: 2,020,952.00 Right-of-way Acquisition and Mitigation Costs: Environmental Mitigation***** \$ 120,000.00 0.00 AC \$ TOTAL PROJECT COST (INCLUDING R-O-W ACQUISITION and MITIGATION) INCLUDED IN THE FINANCE PLAN: 2.020.952.00

^{*} Estimated costs include appurtenances and other items that are a part of the ultimate road segment. Estimated costs do not include interim items, private utility or joint trench costs, or items included in other fee programs.

^{**} Street lights are placed 160' apart on alternate sides of the street for minor roadways and on both sides for major roadways.

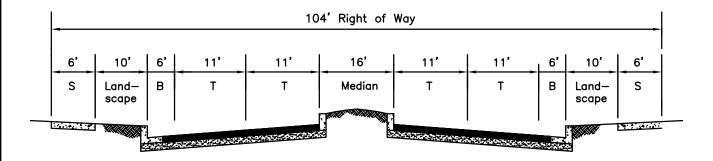
^{***} Median and frontage mitigation fee is calculated separately and, therefore, not included in the segments' total cost.

^{****} Environmental Mitigation Costs based on recent transactions for the Hazel Mitigation Bank

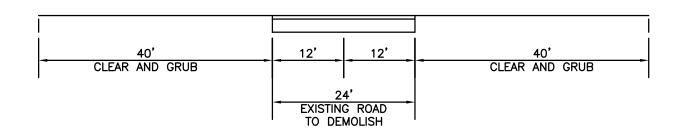
Segment 11

Wilfred Avenue 1 (Parkway)

Between 1999 City Limits and Dowdell Avenue



SHOWN WITH 4 LANES, A MEDIAN AND BIKE LANES



LEGEND

P = Parking

B = Bikeway

T = Travel Lane

S = Sidewalk

NOTES:

- EXISTING ROADWAY WILL BE COMPLETELY DEMOLISHED & RECONSTRUCTED TO ROADWAY SECTION SPECIFICATIONS.
- 2. CURB IS 0.5', GUTTER IS 1.5'.
- 3. EARTHWORK IS BASED ON 2 FOOT EXCAVATION.
- 4. INCLUDES JOINT TRENCH. DOES NOT INCLUDE WATER, SEWER, STORM DRAIN.
- 5. DOES NOT INCLUDE ROW (ADJACENT TO PROPONENTS).
- DOES NOT INCLUDE ENVIRONMENTAL MITIGATION (OVERLAPS PROJECT MITIGATION).



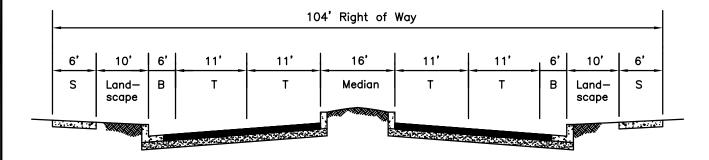
WILFRED AVENUE 1 Segment 11 Between 1999 City Limits and Dowdell Avenue Typical Street and Utility Cost Per Centerline Foot Parkway - 104' right-of-way Reconstruction **Roadway Section:** Length: 580 feet Right of Way Width 104 Year to be Constructed: Project Description: Demolish existing roadway. **Demolition Width** 24 feet Roadway Excavation Depth: 2 feet Landscape Quality Level: B TOTAL CONTINGENCY TOTAL COST ITEM ITEM QUANTITY UNIT UNIT NO. COST* **ITEM COST** 25% MANAGEMENT PER CL FOOT **Surface Costs:** Mobilization 10.00 % \$ 490.25 \$ 49.03 22.06 \$ 71.09 \$ 80.00 \$ 0.27 \$ 21.60 9.72 31.32 Clearing & Grubbing SE \$ 24.00 \$ 2.80 \$ \$ 30.24 97.44 3 Pavement Removal SF 67.20 \$ 5.33 CY \$ 14.91 35.76 115.23 4 Earthwork (curb to curb) \$ 79.47 \$ \$ 5 Lime Treatment (curb to curb) 8.00 SY \$ 1.16 9.28 \$ 4.18 \$ 13.46 6 Pavement (6"AC/13"AB) 53.00 SF \$ 5.90 312.70 140.72 453.42 0.00 \$ 7 Pavement (6" AC/18" AB) SF 6.19 \$ \$ \$ 8 Overlay (2" AC) 0.00 SF \$2.39 \$ \$ \$ Subtotal Surface Costs per LF: \$ 781.96 **Median and Frontage Costs:** Mobilization 10.00 549.88 24.75 79.74 % 54.99 \$ Curb & Gutter 1 F 26.50 53 00 23.85 76.85 10 2.00 \$ \$ \$ 11 Median Curb 2 00 LE \$ 6 14 12 28 \$ 5.53 17.81 PCC Sidewalk 12.00 \$ \$ \$ 106.84 12 SF 6.14 73.68 33.16 13 Street Lighting** 0.012500 EΑ \$ 5,000.00 62.50 \$ 28.13 \$ 90.63 Landscaping (median + 10' w/ 6" 14 34.00 SF \$ 6.50 221.00 \$ \$ 320.45 \$ 99 45 \$ 15 **Underground Utilities** 1.00 LF 127.42 \$ 127.42 \$ 57.34 \$ 184.76 Subtotal Median and Frontage Costs per LF: 877.08 Total Construction Cost per LF: \$ 1,659.04 Cost Breakdown: TOTAL ESTIMATED ROADWAY CONSTRUCTION COST OF THIS SEGMENT: \$ 453.536.80 TOTAL ESTIMATED MEDIAN AND FRONTAGE COST OF THIS SEGMENT***: \$ 508,706.40 TOTAL ESTIMATED ROADWAY COSTS INCLUDED IN THE FINANCE PLAN: 453,536.80 Right-of-way Acquisition and Mitigation Costs: Environmental Mitigation***** 0.00 \$ 120,000.00 AC \$ \$ TOTAL PROJECT COST (INCLUDING R-O-W ACQUISITION and MITIGATION) **INCLUDED IN THE FINANCE PLAN:** 453,536.80 * Estimated costs include appurtenances and other items that are a part of the ultimate road segment. Estimated costs do not include interim items, private utility or joint trench costs, or items included in other fee programs. ** Street lights are placed 160' apart on alternate sides of the street for minor roadways and on both sides for major roadways. *** Median and frontage mitigation fee is calculated separately and, therefore, not included in the segments' total cost.

**** Environmental Mitigation Costs based on recent transactions for the Hazel Mitigation Bank

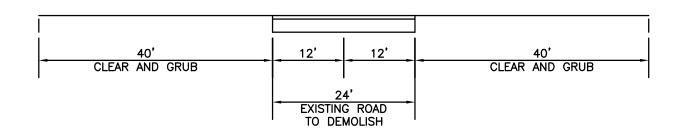
Segment 12

Wilfred Avenue 2 (Parkway)

Between Dowdell Avenue and Urban Growth Boundary



SHOWN WITH 4 LANES, A MEDIAN AND BIKE LANES



LEGEND

P = Parking

B = Bikeway

T = Travel Ĺane

S = Sidewalk

NOTES:

- EXISTING ROADWAY WILL BE COMPLETELY DEMOLISHED & RECONSTRUCTED TO ROADWAY SECTION SPECIFICATIONS.
- 2. CURB IS 0.5', GUTTER IS 1.5'.
- 3. EARTHWORK IS BASED ON 2 FOOT EXCAVATION.
- 4. INCLUDES JOINT TRENCH. DOES NOT INCLUDE WATER, SEWER, STORM DRAIN.
- 5. DOES NOT INCLUDE ROW (ADJACENT TO PROPONENTS).
- 6. DOES NOT INCLUDE ENVIRONMENTAL MITIGATION (OVERLAPS PROJECT MITIGATION).



WILFRED AVENUE 2 Segment 12 Between Dowdell Avenue and Urban Growth Boundary Typical Street and Utility Cost Per Centerline Foot Parkway - 104' right-of-way ▼ Reconstruction **Roadway Section:** 2420 feet Length: Right of Way Width 104 Year to be Constructed: Project Description: Demolish existing roadway. 24 **Demolition Width** feet **Roadway Excavation Depth:** feet Landscape Quality Level: B ITEM ITEM **QUANTITY UNIT** UNIT TOTAL CONTINGENCY **TOTAL COST** NO. COST* ITEM COST 25% MANAGEMENT PER CL FOOT Surface Costs: Mobilization \$ 490.25 \$ 49.03 \$ 10.00 % 22.06 \$ 71.09 \$ \$ 21.60 Clearing & Grubbing 80.00 0.27 9.72 31.32 SF 24.00 \$ 2.80 \$ 67.20 \$ 30.24 \$ 97.44 3 Pavement Removal SF 5.33 CY \$ 14.91 \$ 79.47 \$ 115.23 Earthwork (curb to curb) \$ 35.76 5 Lime Treatment (curb to curb) 8.00 SY \$ 1.16 \$ 9.28 \$ 4.18 \$ 13.46 6 Pavement (6"AC/13"AB) 53.00 SF \$ 5.90 \$ 312.70 \$ 140.72 \$ 453.42 Pavement (6" AC/18" AB) 0.00 SF \$ 6.19 \$ \$ \$ 8 Overlay (2" AC) 0.00 SF \$2.39 \$ \$ \$ Subtotal Surface Costs per LF: \$ 781.96 **Median and Frontage Costs:** Mobilization 10.00 549.88 54.99 79.74 % 24.75 LF \$ \$ \$ Curb & Gutter 2.00 26.50 53.00 23.85 \$ 76.85 10 11 Median Curb 2.00 ΙF \$ 6.14 \$ 12.28 \$ 5.53 17.81 106.84 PCC Sidewalk 12.00 \$ 6.14 73.68 \$ \$ 12 SF \$ 33.16 13 Street Lighting** 0.012500 EΑ \$ 5,000.00 \$ 62.50 \$ 28.13 \$ 90.63 Landscaping (median + 10' w/ 6" 34.00 SF \$ 6.50 221.00 \$ \$ 320.45 14 \$ 99 45 **Underground Utilities** LF \$ 127.42 \$ \$ \$ 1.00 127.42 57.34 184.76 Subtotal Median and Frontage Costs per LF: \$ 877.08 Total Construction Cost per LF: \$ 1,659.04 Cost Breakdown: TOTAL ESTIMATED ROADWAY CONSTRUCTION COST OF THIS SEGMENT: \$ 1.892.343.20 TOTAL ESTIMATED MEDIAN AND FRONTAGE COST OF THIS SEGMENT***: \$ 2,122,533.60 TOTAL ESTIMATED ROADWAY COSTS INCLUDED IN THE FINANCE PLAN: 1,892,343.20 Right-of-way Acquisition and Mitigation Costs: Environmental Mitigation***** 0.00 AC \$ 120,000.00 \$ \$ TOTAL PROJECT COST (INCLUDING R-O-W ACQUISITION and MITIGATION) **INCLUDED IN THE FINANCE PLAN:** \$ 1,892,343.20 * Estimated costs include appurtenances and other items that are a part of the ultimate road segment. Estimated

costs do not include interim items, private utility or joint trench costs, or items included in other fee programs.

^{**} Street lights are placed 160' apart on alternate sides of the street for minor roadways and on both sides for major roadways.

^{***} Median and frontage mitigation fee is calculated separately and, therefore, not included in the segments' total cost.

^{****} Environmental Mitigation Costs based on recent transactions for the Hazel Mitigation Bank

Rohnert Park Finance Plan Bridges

Street Name	Bridge Location	Length (ft)	Additional Width (ft)*	Cost*	**	45%	Contingency/ Management	То	tal Cost	Existing Roadway
Dowdell Avenue	Business Park Dr	40	50	\$ 600	,000	\$	270,000	\$		New Bridge, 2 lanes (30'), 2 Class Il bikeways (8'), 2 sidewalks (8')
Snyder Lane	Copeland Creek	50	20	\$ 300	,000	\$	135,000	\$	/	3 lanes (44'), Class II bikeway (8') and 2 sidewalks (8')
Snyder Lane	Crane Creek	62	20	\$ 372	,000	\$	167,400	\$	539,400	3 lanes (44'), Class II bikeway (4') and sidewalk (4') on west, class I bikeway (8') on east
Snyder Lane	Five Creek	62	20	\$ 372	,000	\$	167,400	\$	539,400	3 lanes (44'), Class II bikeway (4') and sidewalk (4') on west, class I bikeway (8') on east
Snyder Lane	Hinebaugh Creek	62	20	\$ 372	,000	\$	167,400	\$	539,400	3 lanes (44'), Class II bikeway (4') and sidewalk (4') on west, class I bikeway (8') on east
Total				\$ 2,016	,000	\$	907,200	\$ 2	2,923,200	

^{*} Assumes total road width over bridge will be 72' and include 56' for 4 travel lanes, 16' for 2 Sidewalks/Class I Bikeways and no median.

^{**} Cost per sq ft is \$300.

Traffic Control & Intersection Improvements

0205609003 June 2010

INTERSECTION 1

WINZLER & KELLY

Camino Colegio at East Cotati

C: \temp\AcPublish_4356\IS-1.dwg Jul 27, 2010 - 10:09am

PROPOSED

Camino Colegio @ East Cotati

I/S 1

Project Description

Restripe to add N/B shared left turn

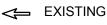
lane

ITEM	ITEM	QUANTITY	UNIT	UNIT		TOTAL	20%	CONTINGENCY	TO	TAL COST
NO.				COST*	E	EM COST	25%	MANAGEMENT		
Surface Co	sts:									
1	Mobilization	10.00	%	\$ 4,710.00	\$	471.00	\$	211.95	\$	680.00
2	Clearing & Grubbing		SF	\$ 2.80	\$	-	\$	-	\$	-
3	Pavement*		SF	\$ 6.19	\$	-	\$	-	\$	-
4	Grinding & Striping	1500	LF	\$ 3.14	\$	4,710.00	\$	2,119.50	\$	6,800.00
5	Handicap Ramps		EA	\$ 1,629.54	\$	-	\$	-	\$	-
6	Traffic Signals		EA	\$ 320,650.00			\$	-	\$	-
								Total Costs	\$	7,480.00

^{*} Budget accomodates 6AC/13AB with lime treament or 6AC/18 AB











INTERSECTION 2
Commerce Boulevard at State Farm Drive



Commerce Blvd @ State Farm Drive

I/S 2

Project Description

Add new signal

ITEM	ITEM	QUANTITY	UNIT	UNIT		TOTAL	20%	CONTINGENCY	TO	OTAL COST
NO.				COST*	Ξ	TEM COST	25%	MANAGEMENT		
Surface Co	sts:									
1	Mobilization	10.00	%	\$ 323,909.08	\$	32,390.91	\$	14,575.91	\$	46,967.00
2	Clearing & Grubbing		SF	\$ 2.80	\$		\$	-	\$	-
3	Pavement*		SF	\$ 6.19	\$	-	\$	-	\$	-
4	Grinding & Striping		LF	\$ 3.14	\$	-	\$	-	\$	-
5	Handicap Ramps	2	EA	\$ 1,629.54	\$	3,259.08	\$	1,466.59	\$	4,700.00
6	Traffic Signals	1	EA	\$ 320,650.00	\$	320,650.00	\$	144,293	\$	464,900.00
								Total Costs	\$	516,567.00

^{*} Budget accomodates 6AC/13AB with lime treament or 6AC/18 AB



<u>LEGEND</u>





EXISTING





PROPOSED

INTERSECTION 3
Commerce Boulevad at South West Blvd



Commerce Blvd @ Southwest

I/S 3

Project Description

Add new signal

ITEM	ITEM	QUANTITY	UNIT	UNIT		TOTAL	20%	CONTINGENCY	TO	OTAL COST
NO.				COST*	Ξ	EM COST	25%	MANAGEMENT		
Surface Co	sts:									
1	Mobilization	10.00	%	\$ 327,168.16	\$	32,716.82	\$	14,722.57	\$	47,439.00
2	Clearing & Grubbing		SF	\$ 2.80	\$	-	\$	-	\$	-
3	Pavement*		SF	\$ 6.19	\$	-	\$	-	\$	-
4	Grinding & Striping		LF	\$ 3.14	\$	-	\$	-	\$	-
5	Handicap Ramps	4	EA	\$ 1,629.54	\$	6,518.16	\$	2,933.17	\$	9,500.00
6	Traffic Signals	1	EA	\$ 320,650.00	\$	320,650	\$	144,293	\$	464,900.00
		•						Total Costs	\$	521,839.00

^{*} Budget accomodates 6AC/13AB with lime treament or 6AC/18 AB

Dowdell Avenue at Business Park Drive

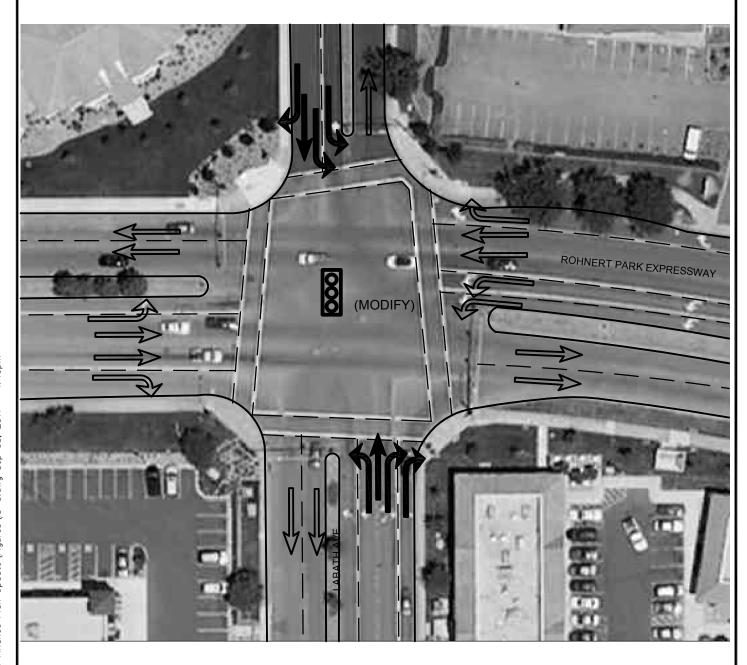
I/S 4

Project Description

Install new signal an new intersection of Dowdell extension and Business Park Drive. Demolish 2,000 linear feet of median in Dowdell and install new left turn lanes

ITEM	ITEM	QUANTITY	UNIT	UNIT	TOTAL	20%	CONTINGENCY	TC	OTAL COST
NO.				COST*	ITEM COST	25%	MANAGEMENT		
Surface Co	sts:								
1	Mobilization	10.00	%	\$ 568,048.16	\$ 56,804.82	\$	25,562.17	\$	82,367.00
2	Clearing & Grubbing	24000.00	SF	\$ 2.80	\$ 67,200.00	\$	30,240.00	\$	97,400.00
3	Pavement*	24000	SF	\$ 6.19	\$ 148,560.00	\$	66,852.00	\$	215,400.00
4	Grinding & Striping	8000	LF	\$ 3.14	\$ 25,120.00	\$	11,304.00	\$	36,400.00
5	Handicap Ramps	4	EA	\$ 1,629.54	\$ 6,518.16	\$	2,933.17	\$	9,500.00
6	Traffic Signals	1	EA	\$ 320,650.00	\$ 320,650.00	\$	144,292.50	\$	464,900.00
7	Traffic Signals		EA	\$ 99,550.00	\$ -	\$	-	\$	-
							Total Costs	\$	905,967.00

^{*} Budget accomodates 6AC/13AB with lime treament or 6AC/18 AB











INTERSECTION 5
Labath at Rohnert Park Expressway



Labath @ Rohnert Park Expressway

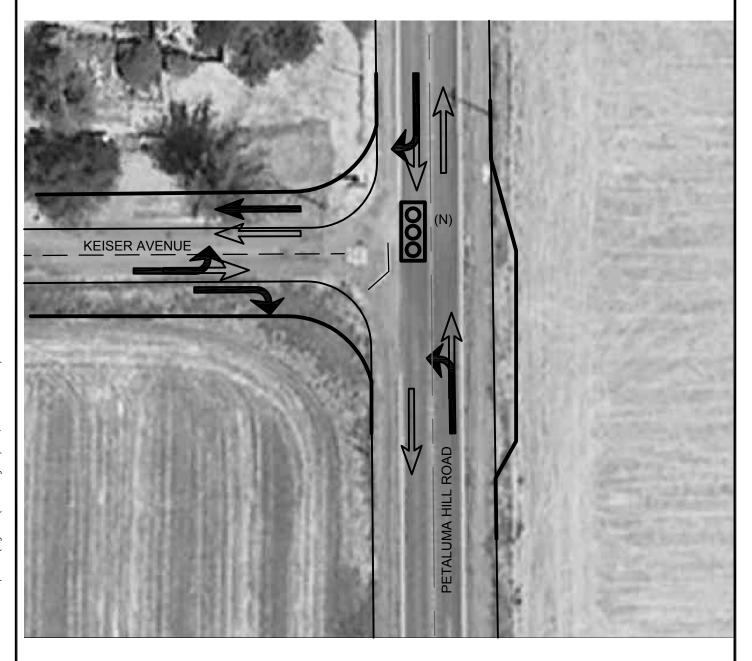
I/S 5

Project Description

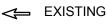
Restripe 2 northbound lanes and 4 southbound lanes and reprogram signal

ITEM	ITEM	QUANTITY	UNIT	UNIT		TOTAL	20%	CONTINGENCY	TO	OTAL COST
NO.				COST*	П	TEM COST	25%	MANAGEMENT		
Surface Co	sts:									
1	Mobilization	10.00	%	\$ 127,810.00	\$	12,781.00	\$	5,751.45	\$	18,532.00
2	Clearing & Grubbing		SF	\$ 2.80	\$	-	\$	-	\$	-
3	Pavement*		SF	\$ 6.19	\$	-	\$	-	\$	-
4	Grinding & Striping	9000	LF	\$ 3.14	\$	28,260.00	\$	12,717.00	\$	41,000.00
5	Handicap Ramps		EA	\$ 1,629.54	\$	-	\$	-	\$	-
6	Reprogram Signal	1	EA	\$ 99,550.00	\$	99,550	\$	44,798	\$	144,300.00
								Total Costs	\$	203.832.00

^{*} Budget accomodates 6AC/13AB with lime treament or 6AC/18 AB











PROPOSED

INTERSECTION 6
Petaluma Hill Road at Keiser Avenue



Petaluma Hill Road @ Keiser

I/S 6

Project Description

Add Signal and widen for right turn lane on Keiser, right turn lane on Petaluma Hill Road and left turn lane on Petaluma Hill Road

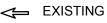
ITEM	ITEM	QUANTITY	UNIT	UNIT	TOTAL	20% CONTINGENCY	TOTAL COST
NO.	I I LIVI	QUANTITI	ONT	COST*	ITEM COST	25% MANAGEMENT	TOTAL COST
Surface Co	sts:						
1	Mobilization	10.00	%	\$ 809,369.08	\$ 80,936.91	\$ 36,421.61	\$ 117,359.00
2	Clearing & Grubbing	54000	SF	\$ 2.80	\$ 151,200.00	\$ 68,040.00	\$ 219,200.00
3	Pavement*	54000	SF	\$ 6.19	\$ 334,260.00	\$ 150,417.00	\$ 484,700.00
4	Grinding & Striping		LF	\$ 3.14	\$ -	\$ -	\$ -
5	Handicap Ramps	2	EA	\$ 1,629.54	\$ 3,259.08	\$ 1,466.59	\$ 4,700.00
6	Traffic Signals	1	EA	\$ 320,650.00	\$ 320,650	\$ 144,293	\$ 464,900.00
		-		·		Total Costs	\$ 1,290,859.00

Note: turn lanes are assumed to be 12-feet wide and extend 1500 feet from intersection

* Budget accomodates 6AC/13AB with lime treament or 6AC/18 AB











PROPOSED

INTERSECTION 7
Petaluma Hill Road at Rohnert Park Expressway



Petaluma Hill Road @ RPX

I/S 7

Project Description

widen for right turn lane on Petaluma Hill Road

				_						
ITEM	ITEM	QUANTITY	UNIT		UNIT	TOTAL	20%	CONTINGENCY	TC	OTAL COST
NO.					COST*	TEM COST	25%	MANAGEMENT		
Surface Co	sts:									
1	Mobilization	10.00	%	\$	165,079.08	\$ 16,507.91	\$	7,428.56	\$	23,936.00
2	Clearing & Grubbing	18000	SF	\$	2.80	\$ 50,400.00	\$	22,680.00	\$	73,100.00
3	Pavement*	18000	SF	\$	6.19	\$ 111,420.00	\$	50,139.00	\$	161,600.00
4	Grinding & Striping		LF	\$	3.14	\$ -	\$	-	\$	-
5	Handicap Ramps	2	EA	\$	1,629.54	\$ 3,259.08	\$	1,466.59	\$	4,700.00
6	Traffic Signals		EA	\$	320,650.00	\$ -	\$	-	\$	-
		•						Total Costs	\$	263,336.00

Note: turn lane is assumed to be 12-feet wide and extend 1500 feet from intersection

Budget accomodates 6AC/13AB with lime treament or 6AC/18 AB











PROPOSED

INTERSECTION 8
Petaluma Hill Road at Valley House Drive



Petaluma Hill Road @ Valley House

I/S 8

Project Description

Add Signal and widen for right turn lane on Railroad , left turn lane on Railroad and right turn lane on Petaluma Hill Road

ITEM	ITEM	QUANTITY	UNIT	UNIT	TOTAL	20%	CONTINGENCY	TOTAL COST
NO.				COST*	ITEM COST	25%	MANAGEMENT	
Surface Co	sts:							
1	Mobilization	10.00	%	\$ 809,369.08	\$ 80,936.91	\$	36,421.61	\$ 117,359.00
2	Clearing & Grubbing	54000	SF	\$ 2.80	\$ 151,200.00	\$	68,040.00	\$ 219,200.00
3	Pavement*	54000	SF	\$ 6.19	\$ 334,260.00	\$	150,417.00	\$ 484,700.00
4	Grinding & Striping		LF	\$ 3.14	\$ -	\$	-	\$ -
5	Handicap Ramps	2	EA	\$ 1,629.54	\$ 3,259.08	\$	1,466.59	\$ 4,700.00
6	Traffic Signals	1	EA	\$ 320,650.00	\$ 320,650	\$	144,293	\$ 464,900.00
							Total Costs	\$ 1,290,859.00

Note: turn lanes are assumed to be 12-feet wide and extend 1500 feet from intersection

* Budget accomodates 6AC/13AB with lime treament or 6AC/18 AB











PROPOSED

INTERSECTION 9 Redwood Drive at Business Park Drive



Redwood Drive @ Business Park Drive

I/S 9

Project Description

New Signal

ITEM	ITEM	QUANTITY	UNIT	UNIT		TOTAL	20%	CONTINGENCY	TO	OTAL COST
NO.				COST*	Ξ	EM COST	25%	MANAGEMENT		
Surface Co	sts:									
1	Mobilization	10.00	%	\$ 323,909.08	\$	32,390.91	\$	14,575.91	\$	46,967.00
2	Clearing & Grubbing		SF	\$ 2.80	\$	-	\$	-	\$	-
3	Pavement*		SF	\$ 6.19	\$	-	\$	-	\$	-
4	Grinding & Striping		LF	\$ 3.14	\$	-	\$	-	\$	-
5	Handicap Ramps	2	EA	\$ 1,629.54	\$	3,259.08	\$	1,466.59	\$	4,700.00
6	Traffic Signals	1	EA	\$ 320,650.00	\$	320,650	\$	144,293	\$	464,900.00
								Total Costs	\$	516,567.00

^{*} Budget accomodates 6AC/13AB with lime treament or 6AC/18 AB











INTERSECTION 10 Redwood Drive at Rohnert Park Expressway



Redwood Drive @ RPX

I/S 10

Project Description

Restripe northbound lanes and modify signal

ITEM	ITEM	QUANTITY	UNIT	UNIT		TOTAL	20%	CONTINGENCY	TO	OTAL COST
NO.				COST*	Π	EM COST	25%	MANAGEMENT		
Surface Co	sts:									
1	Mobilization	10.00	%	\$ 124,908.16	\$	12,490.82	\$	5,620.87	\$	18,112.00
2	Clearing & Grubbing		SF	\$ 2.80	\$	-	\$	-	\$	-
3	Pavement*		SF	\$ 6.19	\$	-	\$	-	\$	-
4	Grinding & Striping	6000	LF	\$ 3.14	\$	18,840.00	\$	8,478.00	\$	27,300.00
5	Handicap Ramps	4	EA	\$ 1,629.54	\$	6,518.16	\$	2,933.17	\$	9,500.00
6	Modify Signal	1	EA	\$ 99,550.00	\$	99,550	\$	44,798	\$	144,300.00
								Total Costs	\$	199,212.00

^{*} Budget accomodates 6AC/13AB with lime treament or 6AC/18 AB





 \Leftrightarrow

EXISTING OR BUDGETED WITH PFFP ROADWAYS OR CURRENT CALTRANS CONSTRUCTION





PROPOSED

INTERSECTION 11 Redwood Drive at Wilfred Ave



Redwood Drive @ Wilfred

I/S 11

Project Description

Add left turn lane on eastbound Wilfred, right turn lane on eastbound Wilfred, right turn lane on southound Redwood and replace signal

ITEM	ITEM	QUANTITY	UNIT	UNIT	TOTAL	20%	CONTINGENCY	TOTAL COST
NO.				COST*	ITEM COST	25%	MANAGEMENT	
Surface Co	sts:							
1	Mobilization	10.00	%	\$ 669,648.16	\$ 66,964.82	\$	30,134.17	\$ 97,099.00
2	Clearing & Grubbing	36000.00	SF	\$ 2.80	\$ 100,800.00	\$	45,360.00	\$ 146,200.00
3	Pavement*	36000.00	SF	\$ 6.19	\$ 222,840.00	\$	100,278.00	\$ 323,100.00
4	Grinding & Striping	6000	LF	\$ 3.14	\$ 18,840.00	\$	8,478.00	\$ 27,300.00
5	Handicap Ramps	4	EA	\$ 1,629.54	\$ 6,518.16	\$	2,933.17	\$ 9,500.00
6	Traffic Signals	1	EA	\$ 320,650.00	\$ 320,650	\$	144,293	\$ 464,900.00
							Total Costs	\$ 1,068,099.00

^{*} Budget accomodates 6AC/13AB with lime treament or 6AC/18 AB



LEGEND









PROPOSED

INTERSECTION 12 Snyder Lane at Keiser Ave



Snyder Lane @ Keiser

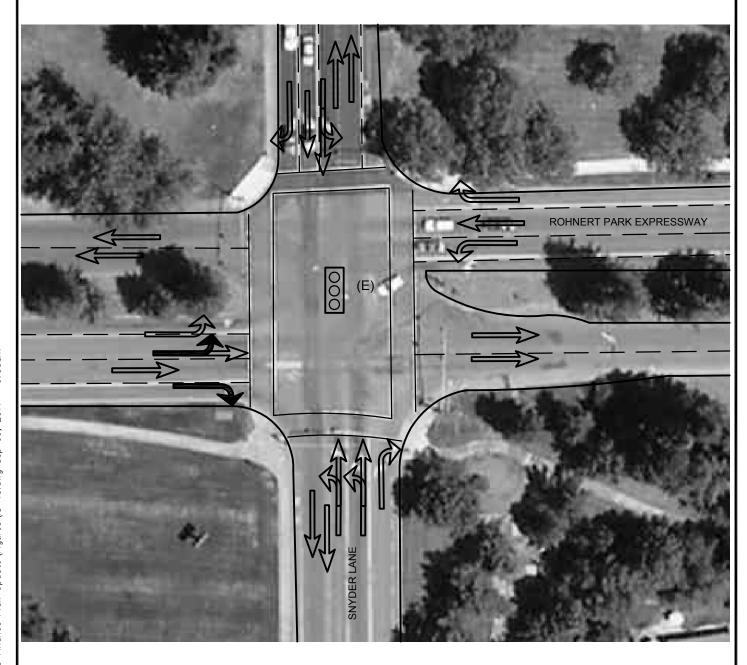
I/S 12

Project Description

Add left turn lane on eastbound Keiser and new signal

ITEM	ITEM	QUANTITY	UNIT	UNIT	UNIT TOTAL 20%		TOTAL COST
NO.				COST*	ITEM COST	25% MANAGEMENT	
Surface Co	sts:						
1	Mobilization	10.00	%	\$ 488,988.16	\$ 48,898.82	\$ 22,004.47	\$ 70,903.00
2	Clearing & Grubbing	18000.00	SF	\$ 2.80	\$ 50,400.00	\$ 22,680.00	\$ 73,100.00
3	Pavement*	18000.00	SF	\$ 6.19	\$ 111,420.00	\$ 50,139.00	\$ 161,600.00
4	Grinding & Striping		LF	\$ 3.14	\$ -	\$ -	\$ -
5	Handicap Ramps	4	EA	\$ 1,629.54	\$ 6,518.16	\$ 2,933.17	\$ 9,500.00
6	Traffic Signals	1	EA	\$ 320,650.00	\$ 320,650	\$ 144,293	\$ 464,900.00
						Total Costs	\$ 780,003.00

^{*} Budget accomodates 6AC/13AB with lime treament or 6AC/18 AB



LEGEND









INTERSECTION 13 Snyder Lane at Rohnert Park Expressway



Snyder Lane @ Rohnert Park Expressway

I/S 13

Project Description

Add right turn lane on eastbound RPX, restripe one through lane to shared through/left on eastbound RPX

ITEM	ITEM	QUANTITY	UNIT	UNIT		TOTAL	20%	CONTINGENCY	TC	TAL COST
NO.				COST*	Π	TEM COST	25%	MANAGEMENT		
Surface Co	sts:									
1	Mobilization	10.00	%	\$ 169,789.08	\$	16,978.91	\$	7,640.51	\$	24,619.00
2	Clearing & Grubbing	18000	SF	\$ 2.80	\$	50,400.00	\$	22,680.00	\$	73,100.00
3	Pavement*	18000	SF	\$ 6.19	\$	111,420.00	\$	50,139.00	\$	161,600.00
4	Grinding & Striping	1500	LF	\$ 3.14	\$	4,710.00	\$	2,119.50	\$	6,800.00
5	Handicap Ramps	2	EA	\$ 1,629.54	\$	3,259.08	\$	1,466.59	\$	4,700.00
6	Traffic Signals		EA	\$ 320,650.00	\$	-	\$	-	\$	-
		•						Total Costs	\$	270,819.00

^{*} Budget accomodates 6AC/13AB with lime treament or 6AC/18 AB

US 101 SB Ramps @ Redwood-Wilfred

I/S 14

Project Description

Restripe southbound through lane to shared through/right/left

ITEM	ITEM	QUANTITY	UNIT	UNIT		TOTAL	20% C	ONTINGENCY	Т	TAL COST
NO.				COST*	П	EM COST	25% N	MANAGEMENT		
Surface Co	sts:									
1	Mobilization	10.00	%	\$ 104,260.00	\$	10,426.00	\$	4,691.70	\$	15,118.00
2	Clearing & Grubbing		SF	\$ 2.80	\$		\$	-	\$	-
3	Pavement*		SF	\$ 6.19	\$	-	\$	-	\$	-
4	Grinding & Striping	1500	LF	\$ 3.14	\$	4,710.00	\$	2,119.50	\$	6,800.00
5	Handicap Ramps		EA	\$ 1,629.54	\$	-	\$	-	\$	-
6	Modify Signal	1	EA	\$ 99,550	\$	99,550.00	\$	44,797.50	\$	144,300.00
								Total Costs	\$	166.218.00

Note: Improvement area is under construction and not mapped

^{*} Budget accomodates 6AC/13AB with lime treament or 6AC/18 AB

US 101 Northbound Ramps at Wilfred-Redwood

I/S 15

Project Description

Restripe nouthbound through lane to shared through/right/left

ITEM	ITEM	QUANTITY	UNIT	UNIT	TOTAL		20%	CONTINGENCY	TC	TAL COST
NO.				COST*	Ξ	EM COST	25%	MANAGEMENT		
Surface Co	sts:									
1	Mobilization	10.00	%	\$ 104,260.00	\$	10,426.00	\$	4,691.70	\$	15,118.00
2	Clearing & Grubbing		SF	\$ 2.80	\$	-	\$	-	\$	-
3	Pavement*		SF	\$ 6.19	\$	-	\$	-	\$	-
4	Grinding & Striping	1500	LF	\$ 3.14	\$	4,710.00	\$	2,119.50	\$	6,800.00
5	Handicap Ramps		EA	\$ 1,629.54	\$	-	\$	-	\$	-
6	Modify Signal	1	EA	\$ 99,550	\$	99,550	\$ •	44,798	\$	144,300.00
								Total Costs	\$	166,218.00

Note: Improvement area is under construction and not mapped

^{*} Budget accomodates 6AC/13AB with lime treament or 6AC/18 AB

this page intentionally left blank

Other Improvements in the PFFP

this page intentionally left blank

Rohnert Park Public Safety Facilities

New Facilities	Quantity	Units	Unit Price	То	Total Construction Costs		45% ontingency anagement	1	Total Costs
Southside Public Safety Station									
Land Acquisition	1.28	AC	\$ -	\$	-	\$	-	\$	-
Site Work	50000	SF	\$ 11.20	\$	560,000.00	\$	252,000.00	\$	812,000
Station	7560	SF	\$ 235.20	\$	1,778,112.00	\$	800,150.40	\$	2,578,262
Furnishing & Equipment	1	LS	\$ 250,000.00	\$	250,000.00	\$	-	\$	250,000
Total								\$	3,640,300
Westside Public Safety Station									
Land Acquisition	1.28	AC	\$ -	\$	-	\$	-	\$	-
Site Work	50000	SF	\$ 11.20	\$	560,000.00	\$	252,000.00	\$	812,000
Station	7800	SF	\$ 235.20	\$	1,834,560.00	\$	825,552.00	\$	2,660,112
Furnishing & Equipment	1	LS	\$ 250,000.00	\$	250,000.00	\$	-	\$	250,000
Total								\$	3,722,112
Citywide Improvements									
Training/Maintenance Land Acquisition	3.32	AC	\$ -	\$	-	\$	-	\$	-
Training/Maintenance Site Work	185000	SF	\$ 11.20	\$	2,072,000	\$	932,400.00	\$	3,004,400.00
Training classroom/EOC facility	2440	SF	\$ 308.00	\$	751,520	\$	338,184.00	\$	1,089,704.00
Furnishing & Equipment	1	LS	\$ 350,000.00	\$	350,000	\$	-	\$	350,000.00
Training Tower	1406	SF	\$ 560.00	\$	787,360	\$	354,312.00	\$	1,141,672.00
K-9 Facility	5780	SF	\$ 28.00	\$	161,840	\$	72,828.00	\$	234,668.00
Total								\$	5,820,444
Public Safety Facilities								\$	13,182,856

Notes:

Cost estimations based on data provided by LCA Architects December 2009 - March 2010

Rohnert Park Finance Plan City Hall 2010

City Hall	Quantity	Unit	Total Cost
Constructed City Hall	1	LS	\$8,538,263
Total			\$ 8,540,000

Costs provided by City of Rohnert Park based on completed construction

Rohnert Park Finance Plan Corporation Yard 2010

Corporation Yard Expansion	Quantity	Units	(Cost per Unit		Total Cost
Land Acquisition	0.5	AC	\$	300,000	\$	150,000
Site Development						
Clearing & Grubbing and Demo	22,000	SF	\$	0.27	\$	5,940
Earthwork	400	CY	\$	14.91	\$	5,964
Site Paving (6"AC/18" AB)	22,000	SF	\$	6.19	\$	136,180
Site Lighting	3	EA	\$	5,000.00	\$	15,000
Fencing	1,500	LF	\$	63.25	\$	94,875
Additional Garage	2,800	SF	\$	200.00	\$	560,000
Public Safety Maintenance	7,750	SF	\$	112.00	\$	868,000
Subtotal					\$	1,835,959
20% Contingency					\$	367,192
25% Management/Design					\$	458,990
Total					\$	2,662,200

Notes:

- 1. Expansion costs assume Corp Yard is expanded at its current location. No relocation costs are included.
- 2. Site Development include clearing, grubbing and repaving. Costs assume that there is no significant earthwork or hazardous materials concerns.
- 3. Site Development costs do not include utility extensions or the installation of fuel storage and dispensing facilities.
- 4. Building costs are on a square foot basis for enclosed space with an allowance for special equipment to maintain public safety equipment

City of Rohnert Park Eastside Trunk Sewer Phase 1 **Construction and Interest Costs**

			Addi	tional	Present Val	ue '	for Charge	
	P	Project Cost	Depre	ciation	Calc	Calculation		
1st Year of Operation (2010)								
Project Cost	\$	13,761,943						
Cash Contribution for Estimated Existing Users Share	\$	3,706,219						
Financed Construction Costs	\$	10,055,724		0%		\$	10,055,724	
Present Value of Interest on Past Debt	•	-,,					7,843,392	
Total					\$		-	
Present Value of Interest on Past Debt								
					Percent		A	
Fiscal Year		Interest	I AIE Boto	PV Factor	Allocated to ETS *	l	Adjusted Interest	
FY 07-08	\$	1,247,868	1.04325	1.073	0.451	l	603,864	
FY 08-09		1,563,979	1.04323		0.451		725,459	
FY 09-10		1,549,979	1.00651	1.023	0.451		703,323	
FY 10-11		973,919	1.55551	1.007	0.451		439,070	
FY 11-12		973,919		0.962	0.451		422,386	
FY 12-13		973,919		0.925	0.451		406,140	
FY 13-14	\$	973,919		0.889	0.451	\$	390,333	
FY 14-15	\$	973,919		0.855	0.451	\$	375,405	
FY 15-16	\$	957,044		0.822	0.451	\$	354,662	
FY 16-17		923,969		0.790	0.451		329,076	
FY 17-18		886,769		0.760	0.451		303,833	
FY 18-19		851,019		0.731	0.451		280,458	
FY 19-20	*	823,969		0.703	0.451		261,142	
FY 20-21	*	798,869		0.676	0.451		243,463	
FY 21-22		775,069		0.650	0.451		227,125	
FY 22-23		752,313		0.625	0.451		211,977	
FY 23-24 FY 24-25		728,284 702,838		0.601 0.577	0.451 0.451		197,327 182,828	
FY 25-26		675,956		0.577	0.451		169,131	
FY 26-27	\$	645,375		0.534	0.451		155,369	
FY 27-28		610,875		0.513	0.451		141,280	
FY 28-29		574,750		0.494	0.451		128,002	
FY 29-30		536,750		0.475	0.451		114,941	
FY 30-31		496,750		0.456	0.451		102,121	
FY 31-32	\$	454,875		0.439	0.451		90,026	
FY 32-33	\$	411,000		0.422	0.451		78,193	
FY 33-34	\$	364,875		0.406	0.451	\$	66,785	
FY 34-35	\$	316,500		0.390	0.451	\$	55,662	
FY 35-36		265,750		0.375	0.451		44,940	
FY 36-37		181,250		0.361	0.451		29,474	
FY 37-38		61,375		0.347	0.451	_	9,596	
Total	\$	23,027,645				\$	7,843,392	

Tax Allocation Bond 2007R Total Principal Balance is 23,305,000.

Total Debt Service Costs are allocated based on the portion of the principal used for ESTS Phase 1

City of Rohnert Park Eastside Trunk Sewer Engineer's Opinion of Probable Cost

			 Pha	 ase 	2 Main Rea	 ach			Pha	se 2	2 South Re	ach	
Item	Description	Quantity	Unit		Jul-11		Total	Quantity	Unit		Jul-11		Total
1	Mobilization & Demobilization	0.87	ls	\$	450,000	\$	391,500	0.13	ls	\$	450,000	\$	58,500
2	Temporary Traffic Control	0.87		\$	450,000	\$	391,500	0.13	ls	\$	450,000	\$	58,500
3 4	Environmental Mitigation SWPPP Implemenation	0.87 0.87	ls Is	\$	50,000 75,000	\$	43,500 65,250	0.13 0.13	ls Is	\$	50,000 75,000		6,500 9,750
5	Lead Compliance Plan	0.87	Is	\$	2,000	\$	1,740	0.13	Is	\$	2,000	\$	260
6	Dewatering	0.87		\$	1,100,000	\$	957,000	0.13	ls	\$	1,100,000	\$	143,000
7	Clearing & Grubbing	0.87	ls	\$	6,000	\$	5,220	0.13	ls	\$	6,000	\$	780
8	Temporary Bypass Pumping	0.87	ls	\$	85,000	\$	73,950	0.13	ls	\$	85,000	\$	11,050
9	Soil Stabilization	1,100	lf Io	\$	700.000	\$	132,000 700,000	0.00	lf Io	\$	700,000	\$	-
10 11	Shoring & Bracing of Excavations Potholing	1.00 218		\$	600	\$	130,800	0.00	ls ea	\$	700,000 600	\$	19,200
12	24-Inch PVC Sanitary Sewer Pipe, Open Trench	8600		\$	300	\$	2,580,000	0	If	\$	300	\$	19,200
13	18-Inch PVC Sanitary Sewer Pipe, Open Trench	0		\$	240	\$	-,,	1300	If	\$	240	\$	312,000
14	8-inch PVE Sanitary Sewer Pipe	12		\$	150	\$	1,800	0	lf	\$	150	\$	-
15	4- and 6- inch PVC Sewer Lateral	7		\$	5,000	\$	35,000	0	ea	\$	5,000	\$	-
16 17	Remove and Replace Trench Foundation inc. Haul 8-inch Sewer Main Connection and inside drop	300	, ,	\$	200 3,500	\$	60,000 14,000	0	cy ea	\$	200 3,500	\$	
18	10-inch Sewer Main Connection and inside drop	2		\$	4,000	\$	8,000	0	ea	\$	4,000	\$	
19	18-inch Sewer Main Connection	0		\$	7,000	\$		0	ea	\$	7,000		
20	60-inch Precast Sewer Manholes with HDPE Liner	26	ea	\$	15,000	\$	390,000	4	ea	\$	15,000	\$	60,000
21	72-inch Precast Sewer Manholes with HDPE Liner	5		\$	20,000	\$	100,000	0	ea	\$	20,000	\$	-
22	48-inch Precast Sewer Manholes	0	ea	\$	15,000	\$	-	0	ea	\$	15,000	\$	-
23	Bore & Jack Under SMART Rail, 24-inch aqueduct and drainage ditch	1	lo.	¢.	250,000	\$	250,000	0	lo	e.	250,000	¢.	
24	Tunneling Under Copeland Creek	0		\$	250,000 250.000	\$	250,000	0	ls Is	\$	250,000	\$	
25	Tunneling and Receiving Pits	1	Is	\$	275,000	\$	275,000	0	ls	\$	275,000	\$	
26	Abandonement and Removal of Sewer Mains	640		\$	100	\$	64,000	0	If	\$	100	\$	-
27	Water Service- 3/4-inch	10		\$	2,500	\$	25,000	0	ea	\$	2,500	\$	-
28	Water Service - 1-inch	6		\$	2,750	\$	16,500	0	ea	\$	2,750		-
29	Water Service - 1-inch with dual meter Water Service - 11/2-inch	5 4		\$	3,000	\$	15,000	0	ea 0	\$	3,000	\$	-
30	Water Service - 2-inch	5		\$	3,000 3,750	\$	12,000 18,750	0	ea	\$	3,000 3,750	\$	
31	Water Service- 2-inch commercial	3		\$	3,750	\$	11,250	0	ea	\$	3,750	\$	
32	Water Service 4-inch commercial	1		\$	5,500	\$	5,500	0	ea	\$	5,500	\$	-
33	Landscape Restoration	1	İs	\$	6,000	\$	6,000	0	İs	\$	6,000	\$	-
34	Temporary Resurfacing	435		\$	130	\$	56,550	65	ton	\$	130	\$	8,450
35	Hot Mix Asphalt Digout Repair Road Restoration	261 3741	ton	\$	200 130	\$	52,200 486,330	39 559	ton	\$	200 130	\$	7,800 72,670
36 37	Conform Grind/Edge Grind AC Pavement	9048		\$	4	\$	36,192	1352	If	\$	4	\$	5,408
38	2-Inch HMA Overlay	3480		\$	115	\$	400,200	520	ton	\$	115	\$	59,800
39	Adjust Existing Utility Structure to Grade	52	ea	\$	400	\$	20,800	8	ea	\$	400	\$	3,200
40	Adjust Existing Manhole Structure to Grade	19		\$	700	\$	13,300	3	ea	\$	700	\$	2,100
41	Reset Survey Monuments	16	ea	\$	2,500	\$	40,000	2	ea	\$	2,500	\$	5,000
42	Field Screening of Potentially Contaminated Soil and Groundwater	653	If	\$	OF.	\$	16,325	97	If	\$	⊃F.	\$	2 425
43	Trench Containment Cutoff	3		\$	25 2,500	\$	7,500	97	ea	\$	2,500	\$	2,425 2,500
44	Contaminated Soil Disposal at Class II Landfill	1305		\$	33	\$	43,065	195	Is	\$	33	\$	6,435
45	Handling Treatment and Disposal of Contaminated						,						
	Groundwater	870000		\$	0.05	\$	43,500	130000	gal	\$	0.05		6,500
46	Vehicle Detector Loop Replacement	30		\$	650	\$	19,500	5	ea	\$	650	\$	3,250
47 48	Traffic Striping: 6-inch Traffic Striping: 8-inch	4872 870		\$	1.00	\$	4,872	728 130	If If	\$	1.00		728
48 49	Pavement Markings	5220		\$	1.50 5.25	\$	1,305 27,405	780	sf	\$	1.50 5.25		195 4,095
50	Retroreflective Pavement Markers	1218		\$	5.25	\$	6,395	182	ea	\$	5.25		956
51	Non-Reflective Pavement Markers	522		\$	5.25	\$	2,741	78	ea	\$	5.25		410
	tion Subtotal					\$	8,058,439					\$	871,461
Constructi SUBTOTA	on Contingency (20%)					\$ \$	1,611,688					\$ \$	174,292 1 045 753
	d Geotech					\$	9,670,127 147,048					3 \$	1,045,753 15,902
	rvation and Project Administration (10%)					\$	967,013					\$	104,575
,	, , ,												
	TOTAL					\$	10,637,139					\$	1,150,329

City of Rohnert Park Eastside Trunk Sewer Engineer's Opinion of Probable Cost

					Phase 3		
Item	Description	Quantity	Unit	А	May djustment		Total
1	Mobilization & Demobilization	1	ls	\$	82,000	\$	82,000
2	Temporary Traffic Control	1	ls	\$	82,000	\$	82,000
<u>3</u> 4	Environmental Mitigation SWPPP Implemenation	1	ls Is	\$	50,000 25,000	\$	50,000
5	Lead Compliance Plan	1	ls	\$	2,000	\$	25,000 2,000
6	Dewatering Dewatering	1	ls	\$	500,000	\$	500,000
7	Clearing & Grubbing	1	ls	\$	6,000	\$	6,000
8	Temporary Bypass Pumping	1	ls	\$	85,000	\$	85,000
9	Soil Stabilization	0	If	\$	120	\$	-
10	Shoring & Bracing of Excavations Potholing	0 50	ls	\$	700,000	\$	30,000
11 12	24-Inch PVC Sanitary Sewer Pipe, Open Trench	0	ea If	\$	300	\$	30,000
13	18-Inch PVC Sanitary Sewer Pipe, Open Trench	2035	if if	\$	240	\$	488,400
14	8-inch PVE Sanitary Sewer Pipe	0	If	\$	150	\$	-
15	4- and 6- inch PVC Sewer Lateral	0	ea	\$	5,000	\$	-
16	Remove and Replace Trench Foundation inc. Haul	0	су	\$	200	\$	-
17	8-inch Sewer Main Connection and inside drop	0	ea	\$	3,500	\$	-
18	10-inch Sewer Main Connection and inside drop	0	ea	\$	4,000	\$	7 000
19 20	18-inch Sewer Main Connection 60-inch Precast Sewer Manholes with HDPE Liner	1 10	ea	\$	7,000 15,000	\$	7,000 150,000
21	72-inch Precast Sewer Manholes with HDPE Liner	0	ea	\$	20,000	\$	150,000
22	48-inch Precast Sewer Manholes	1	ea	\$	15,000	\$	15,000
23	Bore & Jack Under SMART Rail, 24-inch aqueduct and			-	,	•	,
	drainage ditch	0	ls	\$	250,000	\$	-
24	Tunneling Under Copeland Creek	1	ls	\$	250,000	\$	250,000
25	Tunneling and Receiving Pits	1	ls	\$	275,000	\$	275,000
26	Abandonement and Removal of Sewer Mains	0	lf	\$	100	\$	-
27 28	Water Service - 3/4-inch Water Service - 1-inch	0	ea ea	\$	2,500 2,750	\$	
29	Water Service - 1-inch Water Service - 1-inch with dual meter	0	ea	\$	3,000	\$	
20	Water Service - 11/2-inch	0	0	\$	3,000	\$	_
30	Water Service - 2-inch	0	ea	\$	3,750	\$	-
31	Water Service- 2-inch commercial	0	ea	\$	3,750	\$	-
32	Water Service 4-inch commercial	0	ea	\$	5,500	\$	-
33	Landscape Restoration	0	ls	\$	6,000	\$	-
34	Temporary Resurfacing	103	ton	\$	130	\$	13,390
35 36	Hot Mix Asphalt Digout Repair Road Restoration	62 884	ton	\$	200 130	\$	12,400 114,920
37	Conform Grind/Edge Grind AC Pavement	2138	If	\$	4	\$	8,552
38	2-Inch HMA Overlay	822	ton	\$	115	\$	94,530
39	Adjust Existing Utility Structure to Grade	12	ea	\$	400	\$	4,800
40	Adjust Existing Manhole Structure to Grade	5	ea	\$	700	\$	3,500
41	Reset Survey Monuments	2	ea	\$	2,500	\$	5,000
42	Field Screening of Potentially Contaminated Soil and	_	11	φ.	0-	φ.	
43	Groundwater Trench Containment Cutoff	0	lf aa	\$	25 2,500	\$	-
44	Contaminated Soil Disposal at Class II Landfill	0	ea Is	\$	2,500	\$	
45	Handling Treatment and Disposal of Contaminated	U	10	Ψ		Ψ	
	Groundwater	0	ls	\$	0.05	\$	
46	Vehicle Detector Loop Replacement	10	ea	\$	650	\$	6,500
47	Traffic Striping: 6-inch	1000	lf	\$	1.00	\$	1,000
48	Traffic Striping: 8-inch	1020	fl	\$	1.50	\$	
49 50	Pavement Markings Retroreflective Pavement Markers	1020 94	sf	\$	5.25 5.25	\$	5,355 494
51	Non-Reflective Pavement Markers	102	ea	\$	5.25	\$	536
<u> </u>	Tron Tronocavo i aveniena manare	.02	- Ou	Ψ	0.20	Ψ	
onstructi	ion Subtotal					\$	2,318,376
	on Contingency (20%)					\$	231,838
UBTOTA						\$	2,550,214
						\$	100,000
esign and							
esign and	d Geotech vation and Project Administration (10%)					\$	255,021

City of Rohnert Park Interceptor Outfall Project Phase 1

					Pre	esent Value for Charge
						Calculation
Drainet Coot	ے ا	12 000 000				
Project Cost	\$	13,000,000				
Reconstruction Cost New (Project Cost x Escalation)	\$	14,483,417				
Depreciation (5 years in 75 year life = 6.67%)	\$	(966,044)				
Reconstruction Cost New Less Depreciation					\$	13,517,373
Present Value of Interest on Debt (see below)					\$	9,615,250
Existing Users Share (69.7%)					\$	16,123,438
Total for Fee Calculation					\$	7,009,185
Present Value of Interest on Past Debt Fiscal Year		Interest	LAIF Rate	PV Factor		Adjusted Interest
FY 05-06		572,035	1.03873	1.172	Ф	Adjusted Interest
FY 05-06 FY 06-07		,	1.03873			670,462 658,263
FY 06-07 FY 07-08		583,379 575,729	1.05121	1.128 1.073		658,263 617,984
FY 08-09		567,779	1.04323	1.073	\$	584,185
FY 09-10		559,604	1.02224	1.029	\$	563,247
FY 10-11		551,129	1.00031	1.007	- +	551,129
FY 11-12		542,074		0.962	\$	521,475
FY 12-13		532,386		0.902	*	492,457
FY 13-14		522,205		0.889		464,240
FY 14-15		511,518		0.855		437,347
FY 15-16		500,143		0.822	\$	411,117
FY 16-17		487,888		0.790		385,431
FY 17-18		475,138		0.760	\$	361,105
FY 18-19		461,463		0.731	\$	337,329
FY 19-20		447,175		0.703	\$	314,364
FY 20-21		431,950		0.676		291,998
FY 21-22		416,100		0.650		270,465
FY 22-23		396,575		0.625	\$	247,859
FY 23-24		376,075		0.601	\$	226,021
FY 24-25		354,600		0.577	\$	204,604
FY 25-26	\$	332,150		0.555	\$	184,343
FY 26-27	\$	308,725		0.534	\$	164,859
FY 27-28	\$	284,075		0.513	\$	145,730
FY 28-29	\$	258,200		0.494	\$	127,551
FY 29-30	\$	231,100		0.475	\$	109,773
FY 30-31	\$	202,525		0.456	\$	92,351
FY 31-32	\$	172,725		0.439	\$	75,826
FY 32-33	\$	141,450		0.422	\$	59,692
FY 33-34	\$	108,475		0.406	\$	44,041
FY 34-35		74,025		0.390	\$	28,877
FY 35-36		37,875		0.375	\$	14,207
Total	\$	12,016,267			\$	9,615,250

City of Rohnert Park Interceptor Outfall II Engineer's Opinion of Probable Cost

ENR CCI (August 2004) ENR CCI (September 2011)

8228.39 10192.04

Item	Description	Quantity	Unit	August 2004 Estimate		September 2011 Adjustment		Total
1	Mobilization & Demobilization	5%	LS	\$	151,220		\$	187,308
2	Force Main Rehabilitation	20,184	LF		2,018,400	1.24	\$	2,500,077.60
3	Pressure Manholes	12	EA		240,000	1.24	\$	297,274.39
4	70 HP Pumps	2	EA		110,000	1.24	\$	136,250.76
5	250 HP Pumps	2	EA		170,000	1.24	\$	210,569.36
6	Valves & Motors	1	LS		216,000	1.24	\$	267,546.95
7	Electrical, Controls, Instrumentation for pumps	1	LS		270,000	1.24	\$	334,433.69
8	Contractors Overhead & Profit	18%	ls	\$	544,392		\$	674,307
Constructi	tion Subtotal ion Contingency (10%) ng & Management 35%)			\$ \$ \$	3,720,012 372,001 1,302,004		\$ \$ \$	4,607,768 460,777 1,612,719
	TOTAL			\$	5,394,017		\$	6,681,263

Source: Final Predesign Report Interceptor Project, August 2004 (Winzler & Kelly)

Rohnert I	Park Public Facilities Finance Plan			
Canon M	anor Project Management Expenses			
	Canon Manor		Revenue	Expenses
	DESIGN REVIEW			63,621.97
	LEGAL EXPENSES			448,757.92
	STAFF TIME			74,055.32
	OTHER			14,430.44
	PROJECT REVENUES		239,002.46	;
	TRANSFERS			
	Transfer from PFFP	116,644.24		
	Transfer from Sewer Conn Fee	310,667.39		
	Transfer from Sewer Capacity Fee	\$ 8,016.57		
Total		435,328.20	239,002.4	6 600,865.65

Westside Water System Improvements (Redwood Drive Turn-out #163)

Inflation Factor

	2004 Unit ENR		45% Contingency	•
Improvement	Cost Escalation	2010 Unit Cost	& Management	Total Cost
8-inch pipe	\$ 44,100 24%	\$ 54,684	\$ 24,608	\$ 79,292
Tie-ins	\$ 5,600 24%	\$ 6,944	\$ 3,125	\$ 10,069
8-inch valves	\$ 2,800 24%	\$ 3,472	\$ 1,562	\$ 5,034
Traffic Control	\$ 28,000 24%	\$ 34,720	\$ 15,624	\$ 50,344
Misc Labor	\$ 7,000 24%	\$ 8,680	\$ 3,906	\$ 12,586
Total for Improvement with Conti	ngency & Management			\$ 157,325
ENR CCI September 2011 ENR CCI 2004	10192.79 8228.39			

24%

City of Rohnert Park Eastside Water Main Improvements - Project No. 2004-08 Engineer's Estimate of Probable Construction Costs 27-Apr-06

BASE BID

Item No.	Bid Item	Quantity	Units	Unit Cost	Total Cost
1	Mobilization	1	LS	40,000	\$40,000
2	8" W, Trench A, Class 150	745	LF	98	\$73,010
3	8" W, Trench A, Class 200	1459	LF	105	\$153,195
4	8" W, Trench B, Class 200	85	LF	95	\$8,075
5	8" W, Trench C, Class 150	155	LF	85	\$13,175
6	12" W, Trench A, Class 150	1936	LF	120	\$232,320
7	12" W, Trench B, Class 200	40	LF	125	\$5,000
8	12" Gate Valve	2	EA	3,500	\$7,000
9	8" Gate Valve	23	EA	1,300	\$29,900
10	6" Gate Valve	6	EA	1,000	\$6,000
11	2" Combination Air & Vacuum Release Valve Assembly	5	EA	3,000	\$15,000
12	1" Combination Air & Vacuum Release Valve Assembly	8	EA	2,500	\$20,000
13	Full Size Blow-Off Assembly	8	EA	2,500	\$20,000
14	Temporary Blow-Off Assembly	1	EA	2,000	\$2,000
15	Fire Hydrant Assembly	2	EA	5,000	\$10,000
16	Cut-in Tee on 6" Main	2	EA	3,000	\$6,000
17	Cut-in Tee or Ell on 8" Main	10	EA	3,500	\$35,000
18	Cut-in Reducing Cross on 6" Main	2	EA	4,000	\$8,000
19	Reconnect 1" Service Tap	1	EA	1,500	\$1,500
20	Replace Traffic Detector Loop	3	EA	10,000	\$30,000
21	Relocate Storm Drain Structures	2	LS	1,500	\$3,000
22	Abandon Main	0	EA	1,000	\$0
23	Turnout No. 15 Modifications	0	LS	2,000	\$0
24	Pressure Reducing Valve Assembly & Vault	2	EA	15,000	\$30,000
25	10" Meter Assembly, Vault and Backflow Assembly	1	LS	35,000	\$35,000
26	RTU Controls @ Meter Station	1	LS	25,000	\$25,000
27	City of Rohnert Park Business License	1	LS	250	\$250
				Total Base Bid	\$808,425

BID OPTION A

Item No.	Bid Item	Quantity	Units	Unit Cost	Total Cost
28A	12" Pipe, Trench A, Class 150 (PVC SDR 18 or DIP)	188	LF	120	\$22,560
29A	16" Pipe, Trench A, Class 150 (PVC SDR 18 or DIP)	4575	LF	150	\$686,250
30A	16" Pipe, Trench C, Class 150 (PVC SDR 18 or DIP)	55	LF	130	\$7,150
31A	16" Butterfly Valve	3	EA	5,500	\$16,500
				Total Option A	\$732,460

ADDER to BID OPTION A

Item No.	Bid Item	Quantity	Units	Unit Cost	Total Cost
32A	3" Electrical Conduit (In Joint Trench w/16" Pipe)	4630	LF	28	\$129,640
33A	Electrical Pull Box	10	EA	1,500	\$15,000
				Total Adder A	\$144,640

		Totals
Engineer's	Estimate	\$1,686,000
Credit for Calt	rans Work	-\$100,000
Construction Budget	Estimate	\$1,586,000
Contingency	20%	\$317,200
Management	25%	\$396,500
	TOTAL	\$2,299,700

Copeland Creek Basin

ITEM	ITEM	QUANTITY	UNIT		UNIT		TOTAL		20%	CONTINGENCY	T	OTAL COST
NO.					COST*		ITEM COST		25%	MANAGEMENT		
1	Mobilization	10	%	\$	1,549,039	\$	154,904	\$		69,707	\$	224,611
2	Clearing & Grubbing	10	AC	\$	11,606.10	\$	116,061	\$		52,227	\$	168,288
3	Excavation	50100	CY	\$	10.40	\$	521,040	\$		234,468	\$	755,508
4	Levee Construction	9250	CY	\$	29.43	\$	272,228	\$		122,502	\$	394,730
5	Crack Stopper Material	1050	CY	\$	91.00	\$	95,550	\$		42,998	\$	138,548
6	Class 2 Aggregate Base	1560	CY	\$	66.00	\$	102,960	\$		46,332	\$	149,292
7	Fencing	2800	LF	\$	24.75	\$	69,300	\$		31,185	\$	100,485
8	Rock Slope Protection	3000	SY	\$	102.30	\$	306,900	\$		138,105	\$	445,005
9	Outlet Structure	1	LS	\$	50,000.00	\$	50,000	\$		22,500	\$	72,500
10	Seeding	10	AC	\$	1,500.00	\$	15,000	\$		6,750	\$	21,750
							S	Sub	total Surf	ace Costs per LF:	\$	2,470,716
Right-of-wa	ay Acquisition Costs:											
14	Land Acquisition	10.00	AC	\$	1	\$	10.00	\$		4.50	\$	14.50
			TOT	AL	PROJECT	CO	ST (INCLUI	DIN	G R-O-V	V ACQUISITION)		
							INCLUD	ED	IN THE	FINANCE PLAN:	\$	2,470,731

Northeast Basin

ITEM	ITEM	QUANTITY	UNIT		UNIT		TOTAL	20%	CONTINGENCY	TC	OTAL COST
NO.					COST*	ı	TEM COST	25%	MANAGEMENT		
1	Mobilization	10	%	\$	1,734,546	\$	173,455	\$	78,055	\$	251,509
2	Clearing & Grubbing	6.5	AC	\$	11,606.10	\$	75,440	\$	33,948	\$	109,387
3	Excavation	57350	CY	\$	10.40	\$	596,440	\$	268,398	\$	864,838
4	Levee Construction	16550	CY	\$	29.43	\$	487,067	\$	219,180	\$	706,246
5	Crack Stopper Material	1360	CY	\$	91.00	\$	123,760	\$	55,692	\$	179,452
6	Class 2 Aggregate Base	1360	CY	\$	66.00	\$	89,760	\$	40,392	\$	130,152
7	Fencing	2440	LF	\$	24.75	\$	60,390	\$	27,176	\$	87,566
8	Rock Slope Protection	2365	SY	\$	102.30	\$	241,940	\$	108,873	\$	350,812
9	Outlet Structure	1	LS	\$	50,000.00	\$	50,000	\$	22,500	\$	72,500
10	Seeding	6.5	AC	\$	1,500.00	\$	9,750	\$	4,388	\$	14,138
						<u> </u>			Subtotal Surface Costs per LF:	\$	2,766,600
Right-of-w	ay Acquisition Costs:										
14	Land Acquisition	6.50	AC	\$	120,000	\$	780,000.00	\$	351,000.00	\$	1,131,000.00
	•			•		•		•		•	
					TOTAL P	RO	JECT COST	(INC	LUDING R-O-W ACQUISITION)		
								INCL	UDED IN THE FINANCE PLAN:	\$	3,897,600

this page intentionally left blank

Appendix C– Review of Capacity Needs for Two Future Road Projects

this page intentionally left blank



Whitlock & Weinberger Transportation, Inc.

490 Mendocino Avenue Suite 201 Santa Rosa, CA 95401

voice 707.542.9500 fax 707.542.9590 web www.w-trans.com

March 19, 2010

Mr. Patrick Barnes City of Rohnert Park 130 Avram Avenue Rohnert Park, CA 94928

Review of Traffic Capacity Needs for Two Future Road Projects

Dear Mr. Barnes:

Whitlock & Weinberger Transportation, Inc. (W-Trans) has performed an evaluation to determine whether two roadway improvement projects identified in the City of Rohnert Park Public Facilities Finance Plan (PFFP) would be necessary in the future from a traffic capacity perspective. The projects include the extension of Seed Farm Drive between Rohnert Park Expressway and Enterprise Drive, and the widening of Commerce Boulevard between Enterprise Drive and Southwest Boulevard. The need for these projects was evaluated based on projected future traffic volumes developed through use of the Sonoma County Transportation Authority (SCTA) travel demand model.

Background

Public Facilities Finance Plan

In 2006 the City of Rohnert Park adopted an Updated Public PFFP which outlines a comprehensive strategy for managing the costs of capital facilities, maintenance and services that are impacted by new development. Since this update, the need for two projects has come into question: the extension of Seed Farm Drive between Rohnert Park Expressway and Enterprise Drive, including construction of a roadway with two travel lanes and two bike lanes together with installation of traffic signals at each end of the segment, and the widening of Commerce Boulevard between Enterprise Drive and Southwest Boulevard to include four travel lanes, two bike lanes and a median with traffic signal improvements at the two existing traffic signals mid-segment. Information about and locations of the two projects are shown on the enclosed PFFP Figures 2.1 and 2.3.

General Plan

The applied thresholds of significance for traffic impacts associated with not doing these projects were based on those included in the Revised Draft EIR for the Rohnert Park General Plan, as well as thresholds contained in the CEQA Guidelines, Appendix G. Specifically, elimination of these projects from the PFFP would create a significant traffic circulation impact on intersections if it would result in failure to maintain Level of Service (LOS) C operation for intersections and segments. Though the General Plan contains some exceptions to the LOS C standard, none of these are within the study area.

Study Area

The study area, as shown on the enclosed Figure 1, includes Commerce Boulevard between Enterprise Drive and Southwest Boulevard together with the following six intersections:

- 1. Rohnert Park Expressway/State Farm Drive
- 2. Enterprise Drive/Commerce Boulevard
- 3. Enterprise Drive/Hunter Drive
- 4. Enterprise Drive/State Farm Drive
- 5. Commerce Boulevard/Southwest Drive
- 6. Southwest Boulevard/Seed Farm Drive

Consideration was also given to potential impacts to roadways that would need to accommodate the traffic intended to use the proposed Seed Farm Drive extension.

Existing Conditions

Turning movement counts for the weekday morning and evening peak travel periods were obtained during December 2009 and February 2010, with the exception of the intersections at Rohnert Park Expressway/State Farm Drive and Commerce Boulevard/Southwest Boulevard, where data was collected in June 2007, as shown on Figure 1. In recent years during the economic downturn there has been a consistent trend of traffic volumes staying relatively unchanged or declining, therefore, it was deemed unnecessary to increase or "factor" the 2007 data to reflect 2009-2010 levels. Traffic volumes were obtained during the morning peak period between 7:00 a.m. and 9:00 a.m. and during the evening peak period between 4:00 p.m. and 6:00 p.m. on typical days while area schools were in session, including Cotati-Rohnert Park Unified School District schools and Sonoma State University.

The traffic volume data was used to establish the level of delay and associated LOS utilizing methodologies presented in the *Highway Capacity Manual 2000*, published by the Transportation Research Board in 2000. Based upon existing traffic conditions all of the study intersections currently operate acceptably. The intersection LOS calculations are summarized in Table I. The study segment of Commerce Boulevard is also operating acceptably with an average travel speed of 22.4 miles per hour (mph), which is indicative of LOS C operation. Copies of all LOS calculations are enclosed.

Table I
Summary of Peak Hour Intersection Level of Service Calculations

Study Intersection	Ex	isting (Conditio	ns	Fu	ture C	Conditio	ns
	AM	Peak	PM I	Peak	AMI	Peak	PM F	Peak
	Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS
I. Rohnert Park Expy/State Farm Dr	24.9	С	30.4	С	27.5	С	34.3	С
2. Commerce Dr/Enterprise Dr	5.5	Α	10.2	В	5.4	Α	10.8	В
3. Enterprise Dr/Hunter Dr	7.5	Α	8.6	Α	7.7	Α	9.0	Α
4. Enterprise Dr/State Farm Dr	9.2	Α	13.4	В	16.5	С	19.5	С
5. Commerce Blvd/Southwest Blvd	10.4	В	18.6	С	12.9	В	37.0	E
Plus Roundabout					8.0	Α	20.9	C
6. Southwest Blvd/Seed Farm Dr	12.8	В	18.8	В	16.8	В	19.2	В

Notes: Delay is measured in average seconds per vehicle; LOS = Level of Service

Future Conditions

Future traffic volumes were projected for the overall peak hour based upon existing traffic volumes and the level of growth projected in the Sonoma County Travel Model (SCTM/07), which is maintained by the SCTA, as supplied to W-Trans in May 2009. The model is a mathematical representation of existing main roadways and land uses as well as projects for future land use and roadway networks based upon the City's General Plan. The projected future intersection volumes are shown on Figure 2 and an image of the study area within the model is enclosed. Upon review it was determined that the model did not include the Commerce Boulevard widening nor the Seed Farm Drive extension, so the resulting volumes would reflect conditions if these projects were deleted from the PFFP, as is being considered.

Based upon projected future traffic volumes, all of the study intersections are expected to operate acceptably with the exception of Commerce Boulevard/Southwest Boulevard. The study segment along Commerce Boulevard is expected to operate acceptably at LOS C with an average travel speed of 21.9 mph. The intersection results are summarized in Table I and copies of the calculations are enclosed.

In the Corridor Improvements Traffic Study completed by W-Trans in November 2008, the intersection of Commerce Boulevard/Southwest Boulevard was studied in detail, with one finding that the intersection would operate unacceptably at LOS E under future conditions. The study included a recommendation that the intersection be converted to a roundabout, which would be expected to improve operations to an acceptable level. This recommendation remains unchanged; it is further recommended that installation of a roundabout at this intersection be added to the PFFP. A single-lane roundabout would be expected to operate acceptably at LOS A during the a.m. peak hour and LOS C during the p.m. peak hour. Calculations for conditions with a roundabout are enclosed.

PFFP Roadway Improvements Capacity Evaluation

Seed Farm Drive Extension

Regarding vehicular capacity the proposed extension of Seed Farm Drive was not included in the SCTM/07 model. Therefore, traffic volume projections within the model were developed with the underlying assumption that this segment would not exist, and such volumes were dispersed to other vicinity road segments, primarily the nearby parallel road, State Farm Drive. Similarly, future traffic was assumed to utilize other area intersections rather than the non-existent and unplanned intersections of Rohnert Park Expressway/Seed Farm Drive and Enterprise Drive/Seed Farm Drive. These "other area intersections" include Rohnert Park Expressway/State Farm Drive, Enterprise Drive/State Farm Drive, and Seed Farm Drive/Southwest Boulevard.

Since intersections are the locations along a corridor where the majority of turning and crossing movements occur, intersections are predominantly the limiting factor in roadway capacity. Further, the volume of traffic that can be accommodated is generally considerably higher for segments than at the intersections at either end; if the intersections along a segment operate acceptably the connecting segment would typically be expected to operate acceptably as well. Since all of the study intersections in proximity to the Seed Farm Drive extension are projected to operate acceptably under future conditions, as shown in Table I, the existing vicinity segments of State Farm Drive and Seed Farm Drive would be expected to operate acceptably under future conditions; this is true without the Seed Farm Drive extension, given that the model assumptions did not include the extension.

Additionally, the existing and projected Average Daily Traffic (ADT) volumes on adjacent roadways, as shown on the enclosed Figure 3, are consistent with traffic levels that would be appropriate for each affected type of street.

Based upon these considerations it was determined that the Seed Farm Drive extension is not necessary to ensure future acceptable operations for vehicular travel.

Regarding pedestrian and bicycle travel, in order to determine if removal of the Seed Farm Drive extension would have any effect, the City's Pedestrian and Bicycle Master Plan, which is part of a Countywide plan, was reviewed. The plan indicates that a Class I Multi-use Path is proposed to connect Seed Farm Drive between Enterprise Drive and Rohnert Park Expressway. This path is part of the regional SMART trail that is proposed to run parallel to the railroad. Removal of the Seed Farm Drive extension is not expected to impact plans to build this path. The Pedestrian and Bicycle Mast Plan map for Rohnert Park is enclosed.

Commerce Boulevard Widening between Enterprise Drive and Southwest Boulevard

Regarding vehicular capacity, a segment capacity analysis was performed for the existing lane configuration of the study segment of Commerce Boulevard, including single through lanes in each direction. Additional lanes at specific locations were included, such as the southbound left-turn lanes at Enterprise Drive, Avram Avenue and Alison Avenue, and northbound right-turn lane at Alison Avenue. Finally, the stop/yield controls at the intersection of Commerce Boulevard/Southwest Boulevard were considered. It is projected that this segment of Commerce Boulevard will continue to operate acceptably at LOS C with this configuration and future traffic volumes. Because of these projected acceptable operations, the planned widening of this segment appears to be unnecessary from a traffic capacity perspective.

It should be noted that the HCM methodology utilized to analyze this segment is recommended for segments of at least one to two miles in length and this segment of Commerce Boulevard is less than one mile, or 0.6 miles in length. However, as with the Seed Farm Drive extension evaluation, if intersections operate acceptably it is expected that the adjacent corridor will also operate acceptably, so it is important that acceptable intersection operations are maintained to ensure acceptable segment operations. For this reason, it is important to reiterate the above recommendation to install a roundabout at the intersection of Commerce Boulevard/Southwest Boulevard. A single lane roundabout would be expected to provide acceptable intersection operation and maintain acceptable segment operations under future traffic conditions with the existing segment lane configuration.

Additionally, as with the Seed Farm Drive extension, the existing and projected ADTs on Commerce Boulevard are within a range that is considered appropriate for a two-lane facility with turn lanes at major intersections.

Regarding pedestrian and bicycle travel, currently there is a northbound Class II Bicycle Lane on Commerce Boulevard, and sidewalk exists on the majority of the east side of the segment. There is currently a Class I Multi-use Path on the west side of the street which serves pedestrians and southbound cyclists. The improvements identified in the PFFP include installation of a six-foot bicycle lane for southbound travel, together with a contiguous sidewalk on the west side of the street, which would duplicate the existing conditions for the northbound travel on the east side of the street. However, it is unclear if these proposed improvements would replace the existing Class I path or create duplicate southbound facilities. The street cross-section from the PFPP is enclosed.

It should be noted that the Pedestrian and Bicycle Master Plan shows existing Class I and Class II facilities for this segment.

While it appears to be unnecessary to widen Commerce Boulevard for vehicular capacity, it is recommended that pedestrian and bicycle facilities continue to be addressed in the PFFP.

Consistency with Recent Environmental Documents

As noted above, the SCTM/07 travel demand model does not include either the Seed Farm Drive extension or the widening of Commerce Boulevard. The predecessor to the SCTM/07 model was also reviewed, and it was determined that neither improvement was included in that model. These two travel demand models have formed the basis for the Environmental Impact Report (EIR) traffic analyses that are in-process or have been conducted over the past several years for projects in Rohnert Park, including those for University District, Northeast Area, Southeast Area, Canon Manor, Stadium Area, Sonoma Mountain Village, Walmart, and Wilfred-Dowdell. The traffic analyses conducted for these EIRs would therefore remain valid if the City chooses to remove the Seed Farm Drive extension and Commerce Boulevard widening projects from the PFFP.

Conclusions and Recommendations

- All study intersections and segment currently operate acceptably.
- Based on projected future volumes, all of the study intersections and segment are expected to
 operate acceptably in their current configurations with the exception of the intersection of
 Commerce Boulevard/Southwest Boulevard.
- A single-lane roundabout at the intersection of Commerce Boulevard/Southwest Boulevard would be expected to operate acceptably under future volumes. A roundabout at this intersection would also allow the Commerce Boulevard segment to the north to operate acceptably without widening. It is therefore recommended that installation of a single-lane roundabout at Commerce Boulevard/Southwest Boulevard be added to the PFFP.
- Subject to the installation of a single-lane roundabout at the intersection of Commerce Boulevard/Southwest Boulevard, the Commerce Boulevard widening project may be removed from the PFFP with less-than-significant impacts on vicinity roadways and intersections.
- Since all the study intersections in proximity of Seed Farm Drive extension are projected to operate
 acceptably under future conditions, and given that this extension was not included in regional traffic
 modeling assumptions, the Seed Farm Drive extension can be removed from the PFFP with lessthan-significant impacts on vicinity roadways and intersections.
- Removal of the Seed Farm Drive extension from the PFFP is not expected to impact planned bicycle
 or pedestrian circulation improvements.
- It is recommended that bicycle and pedestrian facilities along the study segment of Commerce Boulevard continue to be addressed in future updates to the PFFP.
- The traffic projections utilized in ongoing and recent Rohnert Park EIRs utilized the SCTA travel demand model, which does not include either of the two roadway projects that were the focus of

this evaluation. Consequently, the traffic analyses for these EIRs would remain valid should the City remove the two projects from the PFFP.

Thank you for contacting W-Trans for these services. Please feel free to call have any questions.

Sincerely,

Tony Henderson, EIT

Assistant Transportation Engineer

Mary Jo Yung, P.E., PTOE

Associate

MJY/cdh/RPA907-20.L1

Enclosures: 2006 PFFP – Figures 2.1 and 2.3

Figure I - Study Area and Existing Traffic Volumes

Level of Service Calculations

Sonoma County Travel Model - Study Area

Figure 2 – Future Traffic Volumes Figure 3 – Average Daily Traffic

SCTA Countywide Bicycle and Pedestrian Master Plan - Rohnert Park and Vicinity Map

2006 PFFP - Proposed Commerce Boulevard Cross-section

Between 1999 City Limits & Urban Growth Boundary



Rohnert Park Finance Plan Roadway Improvements Key Map

WINZLER KELLY

10: 43am

05, 2006

J. (05\0205605017\PFFP 2005 Model Update\089-1 Rohnert Park Finance Plan\Report Chapters\2005 Update Chapters\Figures\Figure 2-3.dwg Apr

w-trans

Review of Traffic Capacity Needs for Two Future Road Projects

Study Area and Existing Traffic Volumes

Figure

AM Existing		Thu Feb	11, 2010		13:25:59			Page	re 2-1		PM Existing			Thu Fe	Feb 11,	2010 1	3:26:06			Page	le 2-1
1	AM Peak Hour Traffic Capacity Needs City o		- Existing Conditions for Two Future Roadway if Rohnert Park	Existing Conditions or Two Future Roadwa Rohnert Park	Condici re Roa		Project	5		<u> </u>		Traffic C	PM Peak Hour Capacity Needs City o	Peak Hour ity Needs City	1 4 4	- Existing Conc s for Two Future of Robnert Park		> 1	Projects		1
100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Level Of Service Computation Report 2000 HCM Operations Nethod (Base Volume Alternative) ection #1 Rohnert Park Expwy/State Farm Dr	Of Serv tions Me	Service Computation Report 18 Method (Base Volume Alte 18 Method (Base Volume Alte 19 My/State Farm Dr	mpurar Base V *****	ion Re	Alteri	00000000000000000000000000000000000000	1	1 3	1 .	T A B B B B B B B B B B B B B B B B B B	1 2 4	Level Of Service Computation Hold Operations Method (Base Vo	Off Se Cions X X X X	Of Service Computations Method (Base Vol	Comput (Base *****	Level Of Service Computation Report Operations Method (Base Volume Alternative)	PONT Alterna	rive)	* 3 * 3 * 4 * 4	* *
Cycle (sec): 100 Critical Vol./ Loss Time (sec): 8 (Y+R=4.0 sec) Average Delay Optimal Cycle: 25	* * * * * * * * * * * * * * * * * * * *	Critical Vol./Cap.(X): 8 (Y+R=4.0 sec) Avarage Delay (sec/veh): 25 Level Of Service:	* 0 4 3	Critical Vol./Cap.(X): Average Delay (sec/veh) Level Of Service:	l Vol. Delay f Serv	/Cap. (/ (sec/ /ice:	(X): /veh):	k (2)	0.337 24.9 C	*	Cycle (sec): Loss Time (sec) Cycle: Cycle: Cycle: Cycle:		100 t	(X+Rm4.0	(Des)	Critical Average Level	Critical Vol./Cap.(X): Average Delay (sec/veh) Level Of Service:	/Cap. (X (sec/v ice:	(0):	Q	0.501 30.4
Street Name: Approach: Movement:	North T	State Farm Dr ound South	th Bound	nd R	(1) (1) (2)	Rohnert East Bound	ert Par nd R	¥ -1	Bound	~	Street Name. Approach: Movement:	North	State Bound	Farm	Or South	Bound - R	. 다 양 :	Rohnert East Bound	7 Par	Expwy West - 1	Bound -
Control: Rights: Min. Green: Lanes:	Split Phase Include 0 0 0 1 1 0 1	Spl	plit Phase Include 0 0	0 0	100	Protected Include 0 0 0		4 0	i	. 0	Control: Rights: Min. Green:	Splic Inc	it Phase Include 0		Split Phas Include 0 0 0	Phase lude 0 0	0 1	Protected Include 0 0 0	1 0 1	14	orected Include 0 2 0
Volume Module: Base Vol: Growth Add; 1030 Initial Bse: 1230 User Add: 1.00 PHF Add: 1.00 PHF Add: 1.00 PHF Add: 1.00 PHF Add: 1.00 PHF Add: 1.00 PHF Add: 1.00 Reduced Vol: 123 PCE Add: 1.00 FINALVOLUME: 123 Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation Flow MC Saturation F	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	# 44	1. 73 1. 73	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4001 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.561 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000		1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00		1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.	base Vol: Base Vol: Growth Add; Initial Base: User Add; PHF Add; PHF Volume: Reduced Vol: Reduce	1900 1900 1900 1900 1900 1900 1900 1900	200 200 100 100 100 100 100 100 100 100				154 154 154 154 154 154 154 154 154 154	60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60.00 60	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	1.05 1.06 1.00 1.00 1.00 1.00 1.00 1.00 1.00	43 48 43 40 43 43 43 43 43 43 48 48 48 48 48 48 48 48 48 48
AdjDel/Veh: 3. LOS by Move: HCMZk95thQ:	7.2	8. 8. 8. 9. 8. 8. 9. 8.	5.0			16.7 11 E	16.1	37.2 20.9 D C 6 11	9 19.7 C B	୯ଘଣ	Adjuel/Ven: LOS by Move HCM2k95thQ:	29.7			.2 40.5 D D	40.0 0	31.3				
**************************************	**C**C**C**C**C**C**C**C**C**C**C**C**C	* * * * * * * * * * * * * * * * * * *	* 11 k	*	* * * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * * *	1		**************************************	**************************************	* * * 0 * * **	**************************************	* 0 *	1000 00 00 00 00 00 00 00 00 00 00 00 00	**************************************	k + + + + + + + + + + + + + + + + + + +	k	k	*

Traffix 7.9.0415 (c) 2007 Dowling Assoc. Licensed to W-TRANS, Santa Rosa, CA

Traffix 7.9.0415 (c) 2007 Dowling Assoc. Licensed to W-TRANS, Santa Rosa, CA

AM Existing Thu Feb 11, 2010 13:26:00 Page 3-1	PM Existing Thu Feb 11, 2010 13:26:06
AM Peak Hour - Existing Conditions Traffic Capacity Needs for Two Future Roadway Projects City of Rohnert Park	PM Peak Hour - Existing Conditions Traffic Capacity Needs for Two Future Roadway Projects City of Rohnert Park
Level Of Service Computation Report 2000 HCM Operations Method (Base Volume Alternative)	Level of Service Computation Report 2000 HCW Operations Method (Base Volume Alternative) Intersection #2 Communications Proving Communication Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving Proving
100 100 Critical Vol./Cap.(X): 0. 6 (Y+R=4.0 sec) Average Delay (sec/veh): 18 Level Of Service:	160 (X+R-4.0 sec) Average Delay (sec/veh): 20 Level Of Service:
Enterprise Dr. th Bound East Bond West Bon T - T - K L - T - T - T - T - T - T - T - T - T -	North Bou
ol: Protected Protected Protected Protected Include Include Include Include Include Include Include Include Include Include Include Include Include Include Include Include Include Include In 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	: Protected Protect Include Include 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Decorate Addison	Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Module: Mod
化工业业 化多次分子 化多式电子 医克尔氏 化环二甲基甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲甲	表来来有法是我来去水头不幸。

AM Existing	£-4	Thu Feb 13,	2010	13:26:00			Page	; i ; ;	PM Existing		Thu E	Feb 11, 20	2010 13:0	13:26:07		Page	(4+) (4+)
	Traffic Capacity	AM Peak Hour - Existing Conditions Capacity Needs for Two Future Roadway City of Rohnert Park	disting Two Fut wheert P	Existing Conditions of Two Fature Roadwa Rohnert Park		Projects	s			PM Traffic Capac	Peak Ho ity Nee Cit	PM Peak Hour - Existing Conditions Capacity Needs for Two Future Roadway City of Rohnert Park	Existing Con r Two Future Ronnert Park	Existing Conditions r Two Future Roadwa Rohnert Park	y Projects	Sto	
10 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2000 HCM	Level Of Service Computation Report 4-Way Stop Method (Base Volume Alter tise Dr/Hunter Dr	Computa (Base	volume	aport Altern	(ative)			Intersection	2000 2000 2000 2000	ay Stop		Omputat (Base V	fon Repor	ii ernative	* * *	1
Cycle (sec): Loss Time (sec): Optimal Cycle:	1000	(Y+R-4,0 sec)	Critic Averag Level	Critical Vol./Cap.(X): Average Delay (sec/veh) Level Of Service:	/Cap.(// (sec/ vice:	X): (ceh):	0	.093 7.5 A	Cycle (sec): Loss Time (sec): Optimal Cycle:	k 4	(Y+R=4.0 sec)	;	Critical Average L Level Of	Critical Vol./Cap.(X): Average Belay (sec/veh) Level Of Service:	10.(X): Sec/veh)	**************************************	88.6
Street Name: Approach: Movement:	North Bou	South	Bound	1	East Bound	erpris	Dr West - T	8	Street Name: Approach: Wovement:	North Sou	ster K	uth Bo	nd R	Ente East Bound	Enterpri	· #	Dr West Bound
Control: Rights: Min. Green: Lanes:	Stop Sign Include 0 0 0 0	S120 101 101 101 101 101 101 101 101 101	Sign Sign 0 0 1: 0 0		Stop Sign Include 0 0 0		Stop Sign Include 0 0 0	op Sign Include 0 0 0	Control: Rights: Min. Green: Lanes:	Stop Sign Include 0 0 0	00	Stop Sign Include 0 0 0	000	Stop Sign Include 0 0 0 1 0 1	op Sign Include 0 0	Stop Sign include 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	op Sign Include 0 0 0 1
1 1 1 1 1 1 2 2 2 2	### Words 1	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	7 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	200 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			56 56 56 56 56 56 56 56 56 56	Volume Module: Base Vol: Base Vol: Growth Adj: 1.00 Initial Bse: 2 User Adj: 1.00 PHF Adj: 1.00 Reduced Vol: Reduced Vol: Reduced Vol: CET Adj: 1.00 Adjustment: 1.00 Adjustment: 1.00 Capacity Analysis Vol/Sat: Delay/Veh: Delay/Veh: Delay/Veh: Belay/Veh: Delay/Veh: Belay/Veh: Delay/Veh: Belay/Veh: Belay/Veh: Belay/Veh: Belay/Adj: ApproachDel: Belay/Adj: ApproachDel: Belay Adj: Bela	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	108 1.00 108 1.00 108 1.00 100 1.00 100 1.00 1.00 1.00 1.00 1.00 1.00 1.00 0.83 0.05 576 37 0.19 0.19 0.0 0.00 0.83 0.05 576 37 0.19 0.19 0.19 0.19 0.20 0.00 0.30 0.00 0.0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.00 1.09 1.09 1.09 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	00.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Note: Queue	Note: Queue reported is the number of cars per lane	number of c	Tars per	r Lane.	b. 4. 5. 4: 4:	\$ \$ \$: \$:	* * * * * * * * * * * * * * * * * * * *	* 4 * 4 * 4 * 4 * 4	Note: Queue :	reported is the number	he numk	ber of cars	per	lane.	* * * * * * * *	****	****

Traffix 7.9.0415 (c) 2007 Dowling Assoc. Licensed to W-TRANS, Santa Rosa, CA

Page 5-1	00:8	* * * * * * * * * * * * * * * * * * * *	0.626 0.626 13.4 13.4 13.4	rise Dr West Bound	Stop Sign Include 0 0 0 0	0 1.00 1.00 1.00 0 0 0 0 0 0 0 0 0 0 0 0	1.00 1.00 1.00 0.00 1.00 1.00 0 549 618	XXXXX 0.18 0.34 0.0 10.3 11.0 0.0 10.0 1.00 0.0 10.0 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
13:26:07	Existing Conditions r Two Future Roadway Project Rohnert Park	omputation Report (Base Volume Alternative)	Critical Vol./Cap.(X): Average Delay (sec/veh)	East Bound	Stop Sign Include 0 0 0 0	122 162 100 1.00 1.00 1.00 1.00 1.00 1.00 1.00	1.00 1.00 1.00 1.00 1.00 0.00 511 551 0	0.24 0.29 xxxx 11.5 11.5 11.5 0.0 1.00 1.00 1.00 1.00
Feb 11, 2010	1 2 2	Level Of Service Computation Report 2600 HCM 4-May Stop Method (Base Volume Altern Litersection #4 Enterprise Dr/State Farm Or	**************************************	arm Dr South Bound L T R	Stop Sign Include 0 0 0 0 1	339 0 144 339 0 100 100 100 100 100 100 100 100 339 0 144 100 100 100 339 0 144 100 100 100	1.00 1.00 1.00 1.00 0.00 1.00 541 0 653	ysis Module: xxxx xxxx 0.63 xxxx 0.22 0.0 0.0 0.0 0.0 19.0 0.0 9.5 1.00 1.00 1.00 1.00 1.00 1.00 0.0 0.0 0.0 0.0 1.00 1.0
Thu	PM Peak Hour Traffic Capacity Needs City o	Level Of Service Comp 2600 HGM 4-May Stop Method (Ba	*	St North Bou	Stop Sign Include 0 0 0 0 0	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	low Module: 1.00 1.00 1.00 0.00 0.00 0.00	1,9515 Module: XXXX XXXX 0.0 0.0 0.0 1,00 1,00 0.0 XXXXXX XXXXXX XXXXXX XXXXXX XXXXXX
PM Existing		intersection	Cycle (sec): Loss Time (sec): Optimal Cycle:	Street Name: Approach: Movement:	Control: Rights: Min. Green: Lanes:	Volume Module Base Vol: Growth Adj: Initial Bse: User Adj: PHF Volume: Reduced Vol: Reduced Vol: RCE Adj: YLF Adj: YLF Adj:	Saturation flow Module Adjustment: 1.00 1.00 Lanes: 0.00 0.00 Final Sat.: 0 0 0	Capacity Analysis VollSat: Crit Moves: Delay/Veh: Delay/Veh: Delay Add: LOS by Move: ApproachDel: ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel: ZX ApproachDel:
Page 5-1			0.284 0.284 0.284	Dr. West Bound	Stop Sign Include 0 0 0 0	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	1.00 1.00 1.00 0.00 1.00 1.00 0 672 778	XXXX 0.11 0.28 0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.28 0.9 0.0 0.1 0.0 0.1 0.0 0.1 0.4 0.0 0.1 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4
:26:00	Existing Conditions or Two Puture Roadway Projects Rohnert Park	2005 HCM 4-May Stop Wethod (Base Volume Alternative)	Critical Vol./Cap.(X): Average Delay (sec/veh): Level Of Service:	Enterprise Enterprise East Bound L - T - R L L	Stop Sign Include 0 0 0 0	45 89 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	.00 1.00 1.00 .00 1.00 0.00 599 654 0	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00
Thu Feb 11, 2010 13:26:00	Traffic Capacity Needs for Two Puture Roadway Proje City of Rohnert Park	2005 HCM 4-Way Stop Method (Base Volume Altern ************************************	**************************************	und R	Stop Sign Include 0 0 0 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.00 1.00 1.00 1.00 2.00 2.00 2.00 2.00	Cepacity Analysis Module: Vol/Sar: xxxx xxxx 0.26 xxxx 0.08 0.08 Crit Moves: xxxx xxxx 0.06 0.08 0.08 Crit Moves: 0.0 0.0 0.0 10.6 0.0 7.8 9.0 Delay Adj: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0
ii.	Trafflo Capacity	Level Of Service Composite to the Service Composite to the Service Composite to the Service Composite to the Service Composite Composite Service Composite Composi	*	State R North Bound L - T - R	Stop Sign Include 0 0 0 0	00 1 00 1 00 1 00 1 00 1 00 1 00 1 00	0.0	Capacity Analysis Module: Vol/Sat: Crit Moves: Delay/Veh: Doblay Adj: AgproachDel: ApproachDel: ApproachDel: AcycoachDel:
AM Existing		**************************************	Cycle (sec): Loss Time (sec): Optimal Cycle:	**************************************	Control: Rights: Min. Green: Lanes:	Volume Module: Base Vol: Growth Add: Initial Base: User Add: PHF Volume: Reduced Vol: PCE Add: ALF Add: ALF Add: Interval	Saturation Flow Module: Adjustment: 1.00 1.00 Lanes: 0.00 0.00 Final Sat.: 0	Capacity And Vol/Sar Crit Moves: Delay/Veh: Delay/Veh: Adjberveh: Adjperveh: ApproachDel: ApproachDel: ApproachDel: ApproachDel: ApproachDel: ApproachDel: ApproachDel: ApproachDel: ApproachDel: ApproachDel: ApproachDel: ApproachDel: ApproachDel: ApproachDel: ApproachDel:

Traffix 7.9.6415 (c) 2007 Dowling Assoc. Licensed to W-TRANS, Santa Rosa, CA

Traffix 7.9.0415 (c) 2007 Dowling Assoc. Licensed to W-TRANS, Santa Rosa, CA

Traffic Copportry Name Communication States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States and States			W 20 20 20 20 20 20 20 20 20 20 20 20 20											1				
Street Compared Edition Security Compared Line Accessive) Street Compared Compared Line Accessive) Street Compared Line Accessive) Street Compared Line Accessive) Street Compared Line Accessive) Street Compared Line Accessive) Street Compared Line Accessive) Street Compared Line Accessive) Street Compared Line Accessive) Street Compared Line Accessive) Street Compared Line Accessive) Street Compared Line Accessive) Street Compared Line Accessive) Street Compared Line Accessive) Street Compared Line Accessive) Street Compared Line Accessive) Street Compared Line Accessive) Street Compared Line Accessive) Street Compared Line Accessive) Street Compared Line Accessive) Street Compared Line Accessive) Street Compared Line Accessive) Street Compared Line Accessive) Street Compared Line Accessive) Street Compared Line Accessive) Street Compared Line Accessive) Street Compared Line Accessive) Street Compared Line Accessive) Street Compared Line Accessive) Street Compared Line Accessive) Street Compared Line Accessive) Street Compared Line Accessive) Street Compared Line Accessive) Street Compared Line Accessive) Street Compared Line Accessive) Street Compared Line Accessive) Street Compared Line Accessive) Street Compared Line Accessive) Street Compared Line Accessive) Street Compared Line Accessive) Street Compared Line Accessive) Street Compared Line Accessive) Street Compared Line Accessive) Street Compared Line Accessive Line Accessive Line Accessive Line Accessive Line Accessive Line Accessive Line Accessive Line Accessive Line Accessive Line Accessive Line Accessive Line Accessive Line Accessive Line Accessive Line Accessive Line Accessive Line Accessive Line Accessive Line Accessive Line Accessive Line Accessive Line Accessive Line Accessive Line Accessive Line Accessive Line Accessive Line Accessive Line Accessive Line Accessive Line Accessive Line Accessive Line Accessive Line Accessive Line Accessive Line Accessive Line		NM Peak pacity		Two Fu	Conditio ture Road Park	ns жау Рго	jects					M Peak acity N		isting Two Fut Anert P		E .	ري دي	
Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bird Commerce Bir	2000 HCM	Level O 4-Nay S	f Service top Metho	Comput d (Base	ation Rep	ort	ive)	+ + + + + + + + + + + + + + + + + + +		Incersection	2000 HCtd 4	evel 0;	Service op Method ************************************	Computa (Base	tion Report Volume Alte	rnative	£ (2) (2) (2) (2) (3) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	* * *
Southwest Blook Southwest Blook Later Board Late	(sec): Time (sec):	00 0 (Y+R) 0	-4.0 sec)	Criti	Gall ge D	Cap. (X)		0.39	A A	Cycle (sec): Loss Time (sec) Optimal Cycle		0 (Y+R	4.0 sec)	Critic Averag Level	al Vol./Cap e Delay (se Of Service:	(X): c/veh):	** ** * *	0.731 18.6 C
Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop Sign Stop	me: North B	Commerco Sund	Blvd South L - T	, 0H	East	South Bound T - R		. <u>.</u>	idi R	Street Name: Approach: Movement:	North B	ommerce und - R	Blvd South L - T	ound - R	East B	outhwes und - R	n	lvd West Bound - T -
10 10 10 10 10 10 10 10		0.4	St.	Sign Sign O 0	St	0		50 S19	1	Control: Rights: Min. Green: Lanes:	Stop Igr	l c	St	00	1	G.		Stop Sign Ignore 0 0 0 0
Saturation Flow Module: Saturation Flow Module: 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	000000000000000000000000000000000000000	80.1 80.0 80.0 80.0 80.0 80.0 80.0 80.0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	000000000000000000000000000000000000000	1	<u>. – – – – – – – – – – – – – – – – – – –</u>	1		Volume Module Base Vol: Growth Adj: Initial Bse: User Adj: PHF Adj: PHF Volume: Reduced Vol: Reduced Vol: RETAD: R	0000000000	5847 5847 5847 590.00 60.00 100.00	275 225 275 275 275	1 11 11 1000000000000000000000000000000	00.00.1	0001	1. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3.	1.00 1.28 1.00 1.28 1.00 0.328 1.00 0.00 1.00 0.00 0 0 0 0 0 0 1.00 0.00 1.00 0.00
Capacity Analysis Module: **** **** **** **** **** **** ****	1.00 0.00	1.00	1.00 1.00 651	~. o	3.00	0.0	1.00	00.00	1.00	1	low Module: 1.00 1.00 0.00 1.00			1	00.00	1.00	1.00 1.1.00 0.1.503	1.00 1.00 0.00 1.00 0 594
· * * * * * * * * * * * * * * * * * * *	C	0.0 1.0 0.0		7		X . 0			00.0	Capacity Ana- vol/Sat: Cri: Moves: Delay/veh: Delay/veh: AdjDel/veh: AdjDel/veh: ApprachDel: ApprachDel: ApprAdjDel: ApprAdjDel: ApprAdjDel: ApprAdjDel: AlfayAdj				2	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	XXXX		XXXX 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Traffix 7.9.0415 (c) 2007 Dowling Assoc. Licensed to W-TRANS, Santa Rosa, CA

Training capability Season 10 CT (1974 of Sahmert Auch 10 CT)	AM Existing		Thu Feb	Feb 11,	2010	13:26:00	00			Page 7	7-1	PM Existing			Thu	Feb 11,	2010	13:26:07			Page	7-1
100 EEC Depart Long March (100 EEC Depart Line) 12.5 100 EEC Depart Line) 100 EEC D		Traffic Capaci	Peak He	our 1 is eds for Ey of F	Existin Two F	ig Condi	itions Roadway		8 3 0 0 1 0	 	E 		Traffj.		Peak	1 47 41	xisting Two Fu obnert	Condit ture Ro Park	tions	Projec	SJ	
1	**************************************	2505 HCM Oper	el Of :	Service s Mecho ******	Compusion (Bas	ration e Volu	Report	V 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	(0)	1 5	1 5	10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to	2000 2000 4 4 7 4 4	Lev HCM Ope	vel Of sration krayan Blvd	Service Service Sector	Comput d (Base x x x x x x x x x x x x x x x x x x x	acion F Volume	Report	rative	4	~ h
Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Southwest Bird Sout	Cycle (sec) Loss Time (: 100 : 100 : 0 (*****((Y+Rm4.	. 0 sec)	Crit Crit Aver Leve	ical Volage Del	ol./Caç lay (se ervice:	o. (X):	* * * * * * * * * * * * * * * * * * *	0.23	* ~ 00 M	Cycle (sec) Loss Time (optimal Cyc	:	100	(Y+R=	.0 sec)	Criti Avera Level	cal Vol ige Delz Of Ser	L./Cap.	(X); /veh):	0	0.351 18.8 18
Processed Protected Prot	street Name Approach: Movement:	North Bound	**************************************	sysssss Bouth C - 1	Bound R	* pl	Sast Bc	southwe sund - 3	* 12 * 12 * 13	,	nd try	Axxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	* ,	k 8	* * ⁻ 5 ∝	South	Bound R	k.	, m	outhwes ind	Blvd Rest L - T	Bound - R
1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	Control: Rights: Win. Green: Lanes:	1	<u> </u>	ı	0 6	1 0	Protect Inclu	1 0	14 0	otects Includ 0	"	Control: Rights: Min. Green: Lanes:	1	orected		\$		-	iotecte Includ 0	Ω Ω	1 a o	red ude o 1
**************************************	Volume Modu Base Vol: Growth Add: Initial Bse User Add: PHE Volume: Reduced Vol: Reduced Vol: FinalVolume Saturzation Saturzation Saturzation Saturzation Capacity An Vol(Sat: Crit Moves: Final Volume Final Volume Capacity An Vol(Sat: Capacity An Vol(Sat: Crit Moves: Green Cope: Green Cope: Gre	10: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		1	1	2	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			1 1	* 12000 T	Volume Modumes Base Vol: Growth Add: Initial Bse User Add: PHF Volume: Reduced Vol: Reduced Vol: Reduced Vol: Reduced Vol: Final Volume: Saturation Sat / Lane: Addiustment: Lanes: Final Sat: Capacity An Capacity An Colume/Cap: Belay/Veh: User Delay/Veh: User Welter				1	w mm		1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000 1.000		0 380 1.00 1.00 1.00 1.00 0 380 0 0 380 1.00 1.00 1.00 1.00 1.00 1.00 0 380 0 0 380 0 0 380 0 0 380 0 0 380 0 0 380 0 0 0 380 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1

Traffix 7.9.0415 (c) 2007 Dowling Assoc. Licensed to W-TRANS, Santa Rosa, CA

Traffix 7.9.0415 (c) 2007 Dowling Assoc. Licensed to W-TRANS, Santa Rose, CA

AM Future		Thu	F85	11, 2010	3:26:3	6:33			Page	S-1		PM Future			Thu	Feb 11,	2010	13:26:55			9	Page 2-	e4
	Traffic Capac	AM Peak acity N	AM Peak Hour - Future Condi Capacity Needs for Two Future City of Rohnert Park	- Futur or Two	Future Future	Future Conditions Two Future Roadway connert Park	2 2	Project	g,		! !		Traffic (Capaci	Peak P	K Hour - Future Cond Needs for Two future City of Robnert Park	Future Two Fl	PM Peak Hour - Future Conditions Capacity Needs for Two Future Roadway City of Rohnert Park	lons	Project	מ	; ; ;	1
Intersection	Level Of Service Computation Report 2000 HCM Operations Method (Base Volume Alternative) ntersection #1 Rohnert Park Expwy/State Farm Dr	Devel Of Operation	Servic ns Met)	Service Computation Reports Wethod (Base Volume Alter ************************************	outaci ise Vo	On Rep	ODE LICEXTIS	351Ve)	* * * * * * * * * * * * * * * * * * * *]	Thersection	2000	Level Coperat	ations *****	Level Of Service Computation of HCM Operations Method (Base Vo	rvice Computatio	bevel Of Service Computation Report Operations Method (Base Volume Alternative)	Report	native	4 4	4 5 4 5 4 5 4 4	* *
Cycle (sec): Loss Time (sec): Optimal Cycle:	* * * * * * * * * * * * * * * * * * * *	* # +	(Y+Rm4.0 sec)	Cri Cri Ave	Trical Stage	Critical Vol./Cap.(X): Average Delay (sec/veh): Level Of Service:	Cap. () (sec/v	(): /eh):		0.679 27.5 C		Cycle (sec): Loss Time (sec) Optimal Cycle:	* * * * * * * * * * * * * * * * * * *	1000	· · · · ·	0 8 6 0	Criti	Critical Vol./Cap.(X) Average Delay (sec/ve Level Of Service:	./Cap. ay (sec	Cap. (X): (sec/veh): ce:	*	0.682 34.3	* * * * * * * * * * * * * * * * * * * *
Street Name: Approach: Movement:	N 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	State Farm Dr ound Sou	× ===	Rohnert Par Rohnert Par T - R L - T - R	_ rc	East	Rohnert Rohnert Fast Bound	1	× .×7	Воило		Street Name Approach: Movement:	North	State Bound		n n n n n n n n n n n n n n n n n n n	Bound	n -1	Rohnert East Bound	ا بير در	Park Expwy Nest B	ry Bound	ת א ! א
Control: Rights: Min. Green: Lanes:	Split Phase Include 0 0 0 0 1 1 0 0			Split Phase Include 0 0 1		Prote fn 0	Protected Include 0 0	- 0-	Protected Include 0 0 0	i :		Control: Rights: Min. Green: Lanes:	Split fnc 0	t Phase nclude 0		Split 1 0 (Shase Lude		Protected Include 0 0 0	led led	Proj	Protected Include 0 0 0 0 0 0	0 4
	1.29 1.29 1.29 1.29 1.29 1.29 1.29 1.29	404004 6004 08.04 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10.00 0.10	11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.1552 11.155	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2				! !	1.206 1.206 1.206 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006 1.006		1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	3					1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0000 11.0
Delay/Veh: User DelAdj: AdjDel/Yeh: LOS by Move: HCMCS by Move:	3.00 3.00 4.00 5.00 5.00 5.00 5.00 5.00 5.00 5	49.60 49.60 49.60 41.00	44.5 44 1.00 1. 44.5 44 1.00 1.	4 G L	44.5 44.00 44.00 44.00 44.00 44.00 44.00 44.00 44.00 44.00 44.00 44.00 44.00 44.00 44.00 44.00 44.00 44.00 44.00 44.00 44.00 44.00 44.00 44.00 44.00 44.00 44.00 44.00 44.00 44.00 44.00 44.00 44.00 44.00 44.00 44.00 44.00 44.00 44.00 44.00 44.00 44.00 44.00 44.00 44.00 44.00 44.00 44.00 44.00 44.00 44.00 44.00 44.00 44.00 44.00 44.00 44.00 44.00 44.00 44.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 46.00 4	30.3 16 30.3 16 30.3 16 14	16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.99 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90 16.90	20.1 4 20.1 4 20.1 4 20.1 4	18.6 25.1 18.6 25.1 18.6 25.1 12 CC 12 16	N N - *	5.55 5.15 5.15 5.15 5.15 5.15 5.15 5.15	Delay/veh: User Deladj Adj Del/Veh: LOS by Move HCM2k95thQ: ************************************	32.1 32.1 32.1 34.8	32.1 32.2 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9 3.9	20.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00 13.00	37.3 37.3 37.3 D D D D D D D D D D D D D D D D D D D	2 38.39 38.99 9 38.99 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	40.8 40.8 60.8 7 7 8	28.3 28.3 20.0 20.0	23.3 23.3 C	45.99 31 45.99 31 71 00 1	35.1 3 35.1 3 5 1 3 19 14 19 14	30.00 30.00 4 8 C
Note: Ougue	74444444444444444444444444444444444444	* 0 * * * * * * * * * * * * * * * * * *	**************************************	* 0 * * 14 * * 0 *	+	* * * * * * * * * * * * * * * * * * *	7. 8. * 8. *: 8. *.	x	,	k k k k k k k k k k k k k k k k k k k	h h	Note: Onene	* * * * * * * * * * * * * * * * * * *	* * * '/3 * * 'm' *	the number	* C *	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	per lane	* * *	* * * *	* * * * * * * * * * * * * * * * * * * *	* * *	* *

Traffix 7.9.0415 (c) 2007 Dowling Assoc. Licensed to W-TRANS, Santa Rosa, CA

Traffix 7.9.0415 (c) 2007 Dowling Assoc. Licensed to W-TRANS, Santa Rosa, CA

AM Future		Thu Feb 11, 2	2010 13	13:26:33		۵	age 3-1	1	PM Future		Ę-i	Thu Feb	11,	2010 13:	13:26:55			Page	3-1
	Traffic Capacity Needs City o	102	future C Two Fut Ohnert P	Future Conditions Two Future Roadway Ohnert Park	y Project	ects				Traffic	PM Pez Capacity	k Hou Needs Ciry	1 27 4	ខែភ្នំអ	Conditions ture Roadway Park	/ Project	or s		
**************************************	Level Of Service Computation Report 2005 HCM Operations Method (Base Volume Alternative	Level Of Service Computation Report Operations Method (Base Volume Alternative)	CBase	Volume Alt	ernati	Ve)	**	•	***************************************	2606 HCM	Level Of Service (Of Ser	Service Co s Method (mputat Base V	16vel Of Service Computation Report 2006 HCM Operations Method (Base Volume Alternative	ernativ	e)	***	**
Intersection	Intersection #2 Commerce Dr/Enterprise Dr	/Enterprise D	4 4 4 4 14	, , , , , , ,	**	***	* * * *	*	Intersection #2	#2 Comm	Commerce Dr/Enterprise	Enterp	rise Dr	* * * * * * * * * * * * * * * * * * * *	RIGGEO DY/Enterplise Dr	* * * * * * * * * * * * * * * * * * * *	* * * * *	****	* 1. * * * * * * * * * * * * * * * * * *
Cycle (sec): Loss Time (sec); Optimal Cycle:	***	6 (Y+R=4.0 sec) Avexage Delay (sec/veh): lose (Yex=4.0 sec) Avexage Delay (sec/veh):	Critic Averag Level	Critical Vol./Cap.(X): Average Delay (sec/veh) Level Of Service:	19.(X):	***	0.226 5.4	**	Cycle (sec): Loss Time (sec): Optimal Cycle:	***	100	**************************************	O 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Critical Average D	Critical Vol./Cap.(X): Average Delay (sec/veh) Level Of Service:	p.(X): ec/veh)	k	0.356 10.8	S s a s
Street Name: Approach: Movement:	North	Commerce Dr und South Bound - R L - T -	und - R	East Bound	Snierpris Sound - R	rise Dr West			Street Name: Approach: Movement:	North	8	r-2	Dr South Bound - T -		tz)	Enterpri Bound - R	ise Dr West	08 [™]	د مام ج
Control: Rights: Min. Green: Lanes:	Protected Include 0 0 0 0	Protect Inclu 0 0 0 1 0 2	ed co	Protected Include 0 0 0	reed lude 0 0	! ! ! 	Protected Include 0 0 0	I o	Control: Rights: Min. Green: Lanes:	Prote	rotected Lnclude 0 0	 	Protected Include		Protected Include 0 0 0	ied ied bde 0 0	2 0 0	otect Inclu	ded o
			1			1	-	Ī			,		! !		1	-		1	1
Volume Module: Base Vol: Growth Adj: I	00.585	2.00	2.000			1.00.1		0000 0000	Volume Module Base Vol: Growth Adj: Initial Bse:	a: 0 732 1.00 1.00 0 732	32 104 00 1.00 32 104		3.00 3.00 843	000	,	00.1	161	0000	7.00 200 40 64
user kaj: PHF Aaj: PHF Volume:	1.00 1.00 1.00	1.00 1.00 1.00 1.60 24 346	1.00	1.00 1.00	20.1	1.00 1		3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	user Adj: PHF Adj: PHF Volume:	1.00 1.00		1.00	1.00	000.5	1.0	3.00	1.00	300	500.4
Reduct Vol: Reduced Vol:		0 24	00	0 0		51		00	Reduct Vol:				න ය රා ස්	00	00	00	161	00	0
PCE Adj: MLF Adj:	1.00 1.00 1.	1.001	1.00	0.4	1.0	1.00 1		1.00	PCE Adj: MLF Adj:	1.00 1.00	r4 *~{	~ ~	1.00 1.00		1.00 1.00	1.00	1.00	1.00	1.00
SinalVolume:	0 585	24	0 1	0 1	0 1	51	1	e i	FinalVolume:		1		841		- !	0 1	361	0	96
Saturation Flow Wodule: Sat/Lane: 1900 1900 Adjustment: 1.00 0.93 Lanes: 0.00 1.79 Final Sat.: 9.3173	M O O	2 1900 1900 9 0.95 0.95 1 1.00 2.00 1805 3610	1900	1900 1900 1.00 1.00 0.00 0.00	1900	1900 0.92 2.00	1.00 0 1.00 0 1.00 0	00 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	Saturation Fl Sat/Lane: Adjustment: Lanes: Final Sat.:	1900 1900 1900 1900 1.00 0.93 0.00 1.75	16; 30 1900 93 0.93 75 0.25		1900 0.95 2.00	1900	1900 1900 1.00 1.00 0.00 0.00	1900	1900 0.92 2.00 3502	1900 1.00 0.00	1,900 1,00 1,00
Capacity Analysis	Module:			0000	000		6	1 0	it y	Analysis Modul	, a		0.23		1 0	1 00	- 0		1 0
Crit Moves: Green/Cycle:	2 * 65 1 * 00 1 * 10	0.06	00.00			0.00	200	2 99	Crit Moves: Green/Cycle:	0.00 0.66	, 0		0.78			0.00	9 5	00.0	0 4 0
Volume/Cap: Delay/Veh:	0.00 0.23 0.23 0.0 2.1 2.1	3 0.23 0.11 46.0 0.9	0.00	0.00 0.00	0.00	44.9		90 FF F	Volume/Cap: Delay/Veh:	0.00 0.0	Ç)		0.30 3.3			0.00	92.9	0.00	38.0
User DelAdj: AdjDel/Veh:	1.50 1.00	1.00	1.00		0.5	1.00	1.00 1	1.00	User DelAdj: AdjDel/Veh:	1.00 1.00	٦.	42.	3.3	0.0	1.00 1.00	1.00	1.00 36.9	2,00	1.00 38.0
LOS by Move: RCM2k95thQ:	ବା ଶ ୟ ଓ ୟ ପ	22	d 0	4.0 4.0	40			0 4	LOS by Move: BCM2k95tbQ:	K O			et, 00			4 O		<0	00
Note: Queue reported 1	k 151 *	the number of cars	*		* *:		k 4 k k k k k k k k	*	Note: Queue Z	reported	* 07 *	the number	of cars	0.1	1200. 1200.	. * . * . * . * . * . * . * . *	k 4. * * * * * * * * * * * * * * * * * * *	*	*

Traffix 7.9.0415 (c) 2007 Dowling Assoc. Licensed to M-TRANS, Santa Rosa, CA

Trafflx 7.9.0415 (c) 2007 Dowling Assoc. Licensed to W-TNANS, Santa Rosa, CA

Traffix 7.9.0415 (c) 2007 Dowling Assoc. Licensed to W-TRANS, Santa Rosa, CA

Traffix 7.9.0415 (c) 2007 Dowling Assoc. Licensed to W-TRAMS, Santa Rosa, CA

AM Fucure		Thu	Thu Feb 11,		2010 13:26:33	33		â	Page 5-1	-1	PM Future		ne.L	2 Feb 11,	2010 1	3:26:55			Page	5-1	
	AM Traffic Capaci	AM Peak Bour acity Needs City o	Hour - seds for	AM Peak Bour - Future Conditions Capacity Needs for Two Future Roadway Projec City of Rohnert Park	Condi Uffure Park	tions Roadwa	y Proj	sots				Traffic Cap	PM Peal	PM Peak Hour - Future Cond Capacity Needs for Two future City of Rohnert Park	Two Two phner	[]	% % %	Project	رن دن		
* C C 6 6 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2 8 10 2	Level Of Service Computation Report 2000 RCM 4-Way Stop Method (Base Volume Alternative Intersection & Energian Dr	el Of ay Sto ****** e Or/S	Of Service Stop Method	e Compu	tation e Volu	Computation Report (Sase Volume Alte	ernativ	/e)	* *	* 3	Devel Of Service Comparation of Service Comparation of Service Service Comparation of Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service Service	2000 HCM 4 ************************************	Level Of 4-Way Stores Stores Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores Or Stores	Level Of Service Computation Report HCW 4-May Stop Method (Base Volume Alternative) LOSTERRESERVED METHOD (Base Volume Alternative) LOSTERRESERVED METHOD (Base Volume Alternative)	Computation d (Base Volum ************************************	volume	Report	ative)	#	4 9 4 9 4 9 4 9 4 9 4 9	
Cos Time (sec): Cos Time (sec): Optimal Cycle:		7=X+X)	(Y+BE4.0 000)	100 (Y+R=4.6 sec) Average Delay (sec/veh): 0 (Y+R=4.6 sec) Level Of Service:	ical V age De	Critical Vol./Cap.(X): Average Delay (sec/veh): Level Of Service:	p. (X): ec/veh)		16.55	* *		*	100 (Y+R)	(Y+:Xed.0 sec.)	Critica Average Level O	Critical Vol./Cap.(X): Average Delay (sec/veh) Level Of Service:	./Cap.(y (sec/vice:	o.(X):	6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	0.804 19.5	:
Street Name: Approach: Movement:	.c	State Farm Dround Sou	South	South Bound	,,,	East Bound	Enterpri ound	& 1-J	Dr West Bound - T -		Street Name: Approach: Movement:	North B	6 K	arm Dr South Bound L - T -	Bound - R	i in ii-	East Bound - T -	rpri	se Dr West	Bound - R	
Control: Rights: Min. Green: Lanes:	Stop Sign Include 0 0 0	0	100	Sign clude 0		Stop Sign Include 0 0	^	St	Stop Sign Include 0 0 0		ol: s: Gxeen:	Stop Si Inclu	gn de 0 0	St.	op Sign Include 0 0 0		Stop Sign Include 0 0 0		Stop Sign Include 0 0 0		
	Volume Module: Base Vol: Growth Adj: 1.00 1.00 1.00 1.00 Initial Bse: 0 0 0 398 Growth Adj: 1.00 1.00 1.00 1.00 BHF Adj: 1.00 1.00 1.00 1.00 BHF Adj: 1.00 1.00 1.00 1.00 Reduct Vol: 0 0 0 398 Reduct Vol: 0 0 0 398 Reduct Vol: 0 0 0 0 398 Reduct Vol: 0 0 0 0 398 Reduct Vol: 0 0 0 0 398 Reduct Vol: 0 0 0 0 398 Reduct Vol: 0 0 0 0 398 Reduct Vol: 0 0 0 0 398 Saturation Flow Module: 0 0 0 1.00 Final Sat.: 0 0 0 0 0 0 1.00 Final Sat.: 0 0 0 0 0 0 0 1.00 Final Sat.: 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		398 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	5.8 46 5.00 1.00 5.00 46 107 1.00 1.00 1.00 1.00 1.00 1.00 1.00	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000	momonomono non m			1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	00000000000000000000000000000000000000			1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	# # # # # # # # # # # # # # # # # # #	1 404004040041 0001 WYSCOD	
Note: Queue	Note: Queue reported is the number of cars per lane	ne nem	10 * * * * * * * * * * * * * * * * *	Cars 7	er iene	* * *	* * * * * * * * * * * * * * * * * * * *	***	*	*	Note: Queue :	reported is	s the number	Inber of car	cars per	r lane.	* * *	* * * * *	****	* * * * * * * * * * * * * * * * * * * *	*

Traffix 7.9.0415 (c) 2007 Dowling Assoc. Alcensed to W-TRANS, Santa Rosa, CA

Traffix 7.9.0415 (c) 2007 Dowling Assoc. Licensed to W-TRANS, Santa Rosa, CA

AN DARK MANY - MANY JAMES NA							
Traffic Capacity Needs for Future Roadway City of Robnert Park	Peak Hour - Future Conditions ty Needs for Two Future Roadway Projects City of Rohnert Park	ıt s	£-	PM Peak Hour Traffic Capacity Needs City o	for Two Fu	e Conditions future Roadway Project t Park	90 E S
Level Of Service Computation Report 2505 HCM 4-May Stop Method (Base Volume Alte	Level Of Service Computation Report 2005 HCM 4-May Stop Method (Base Volume Alternative)	(0)	Intersection	ievel Of Service Compusive to Method (Baserice to Method (Baserice to Method (Baserice to Method (Baserice to Method Baserice Blod Southwest Blod	Of Service Computation Report Stop Method (Base Volume Alte	Level Of Service Computation Report 2666 HCM 4-May Stop Method (Base Volume Alternative) ***********************************	(a)
0 (Y+R#4.0 sec) Averad	109 0 (Y+Rw4.0 sec) Average belay (sec/veh): 0 ievel Of Service:		Cycle (sec): Loss Time (sec): Optimal Cycle:	100 (Y+R	00 (Y+R=4.0 sec) Averag	Critical Vol./Cap.(X): Average Delay (sec/veh): Level Of Service:	, , , , , , , , , , , , , , , , , , ,
Commerce Blvd ound South Bound - R L T - R	Southwest East Bound	st Blvd West Bound f T - R	Street Name: Approach: Movement:	Commerce Blvd North Bound Sou	e Blvd South Bound L - T - R	, n-l	sst Blvd West Bound L - T - R
Step Sign Include	Stop Sign Include 0 0 0 0	Stop Sign Ignore 0 0 0 0	Control: Rights: Min. Green: Lanes:	Stop Sign Sgnore 0 0 0 0	Stop Sign Include 0 0 0 0	Stop Sign Include 0 0 0 0	Stop Sign Ignore 0 0 0 0
	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	196 0 220 1.00 1.00 1.00 1.00 1.00 0.00 1.00 1.00 0.00 196 0 0 0 1.00 1.00 0.00 1.00 1.00 0.00 1.00 1.00 0.00	Volume Module: Base Vol: Growth Add: Initial Bse: User Add: PHF Kdd: Reduct Vol: Reductd Vol: Reduced Vol: RCD RAG: INTE Add: REDUCT NOI:	1.00 1.00 0.00 1.00 1.00 0.00 1.00 1.00	425 341 0 425 341 0 425 341 0 1.00 1.00 1.00 1.00 1.00 1.00 425 341 0 425 341 0 425 341 0 425 341 0 425 341 0 625 341 0	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	447 0 413 1.00 1.00 1.00 1.00 1.00 0.00 447 0 0.00 447 0 0 0 1.00 1.00 0.00 447 0 0 0.00 1.00 1.00 0.00
1.00 1.00 1.00 0.00 673 0	1.00 1.00 1.00 0.00 0.00 0.00 0 0 0	1.00 1.00 1.00 1.00 0.00 1.00 548 0 663	ation El tment:	ow Module: 1.00 1.00 1.00 0.00 1.00 1.00 0 478 525	1.00 1.00 1.00 1.00 1.00 0.00 488 520 0	1.00 1.00 0.00 0.00 0.00 0 0 0 0	1.00 1.00 1.00 1.00 0.00 1.00 473 0 551
Capacity Analysis Module: Capacity Analysis Module: Cuit Moves: Cuit Moves: Cuit Moves: Delay/Weh: Dol 9.2 Dol 1.00 Do	X 0000	0.36 xxxx 0.00 12.3 0.0 0.0 12.3 0.0 0.0 12.3 0.0 0.0 12.3 0.0 0.0 12.3 0.0 0.0 12.3 0.0 0.0	Capacity Analysis ModulvolSat: Analysis ModulvolSat: Analysis ModulvolSat: Analysis ModulvolSat: Analysis ModulvolSat: Analysis ModulvolSat: Analysis Notes Analysis Notes Analysis Notes Analysis Notes Analysis Notes Analysis Notes Analysis Notes Analysis Notes Analysis Notes	alysis Module: 0.0 20.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.87 0.66 xxxx 41.6 21.4 0.0 1.00 1.00 1.00 4.6 21.4 0.0 E C C 7 32.6 1.00 32.6 4.3 1.7 0.0	XXXX XXXX XXXX	0.94 xxxx 0.00 55.2 0.0 0.0 55.2 0.0 0.0 55.2 0.0 0.0 55.2 0.0 0.0 55.2 0.0 0.0

Traffix 7.9.0415 (c) 2007 Dowling Assoc. Licensed to W-TRANS, Santa Rosa, CA

Traffix 7.9.0415 (c) 2007 Dowling Assoc. Licensed to M-TRANS, Santa Ross, CA

MOVEMENT SUMMARY

Site: Future PM (Single Lane)

Commerce Boulevard/Southwest Boulevard Future PM Peak Hour MOVEMENT SUMMARY

Site: Future AM (Single Lane)

Commerce Boulevard/Southwest Boulevard Future AM Peak Hour Roundabout

. Gl volv					-						
	Turn	Demand Flow weh/h	≩ %	Deg. Satn víc	Average Delay	Level of Service	95% Back of Vehicles	f Queue Distance	Prop. Queued	Effective Stop Rate	Average Speed mph
South	North	Northbound Commerce									
8T	۰	87	2.0	0.397	4.5	LOSA	3.1	80.0	0.61	0.52	23.2
8R	œ	296	2.0	0.398	7.6	LOSA	3.1	80.0	0.61	0,68	25.1
Approach		383	2.0	0.398	6.9	LOSA	3.1	80.0	0.61	0.64	24.7
East	West	Westbound Sauthwest	/est								
1,	_	196	2.0	0.319	10.6	LOS B	2.6	65.7	0.30	0.67	23.9
6R	ĸ	220	5.0	0.319	5.3	LOS A	5.6	65.7	0.30	0.44	26.5
Approach		416	2.0	0.319	7.8	LOS 8	2.6	65.7	0.30	0.55	25.1
North	South	Southbound Commerce	erce								
٦	٦	345	2.0	0.375	10.6	LOS B	2.9	73.9	0.45	69.0	22.3
47	-	83	2.0	0.376	4.1	LOSA	5.9	73.9	0.45	0,42	24.1
Approach		428	2.0	0.375	9.3	RSOT	2.9	73.9	0.45	0.64	22.6
All Venicles	ş	1227	2.0	0.398	8.0	LOSA	3.1	80.0	0.45	0.61	24.0

Level of Service (Aver. Int. Delay); LOS A. Based on average delay for all vehicle movements. LOS Method: Delay (HCM).
Level of Service (Worst Movement); LOS B. LOS Method for individual vehicle movements: Delay (HCM).
Approach LOS values are beased on the worst delay for any vehicle movement.
Roundabout LOS Method: Sanza as Signated Intersections.
Roundabout Capacity Model: SIDRA Standard.

Processod: Monday, March 01, 2010 3.08:05 PM Coghnight ©20(t)b.20(t)b.46:oslik & Associates Pty Lid SIGPA WITERESCTION 4.0.9:173

WWW.SIGDASULIONS.COMP. 40, 9:173

Project: N. MAANSOXIRPANSIORPANSIORPANSIORPANCOMPRESCO-SOuthwest. SIF-BOOR943, W. TRANS. FLOATING

SIDRA

Level of Service (Aver. int. Delay): LOS C. Based on average delay for all vehicle movements. LOS Method: Delay (HCM).
Level of Service (Worst Movement): LOS C. LOS Method for individual vehicle movements: Delay (HCM),
papproach LOS values are hased on the worst delay for any vehicle movement.
Roundsbout LOS Method: Same as Signafed Intersections.
Roundsbout Capacity Model: SIDRA Standard. All Vehicles Approach Approach Approach South North 걱 두 88 ٦ 8 East

16.2 16.5 16.3

1.36

1.00

541.4 4.14 654.4

27.3

LOSC COSC 2807

26.3 19.8 23.4

0.912 0.912

2.D 2.0 5.0

425 341 2448

Southbound Commerce

0.911

17.5

1.24

1.00

25.8

20.9

0.947

20.5 21.8 21.1

0.95

0.00.1

416.2 416.2 416.2

16.4

LOS B LOS B

17.4 12.0 14.8

0.836

2.0

447 413 860

œ

Westbound Southw

16.1

1.40

1.00

654.4 654.4

25.8 25.8 25.8

108C

22.9 26.0 24.9

0.947 0.948

2.0

537

α

Processod: Monday, March 01, 2010 2:50:09 PM Copyright ©22000-2009 Akcelit & Associates Pty Lid SIDPA INTERSECTION 4.0.9.973 Executable SIDPA INTERSECTION 4.0.9.973 Executable SIDPA INTERSECTION 4.0.9.977 Executable SIDPA INTERVENCENT PRANS, PLOOF TINGA INTERVENCENT PARAS, PLOOF TINGA

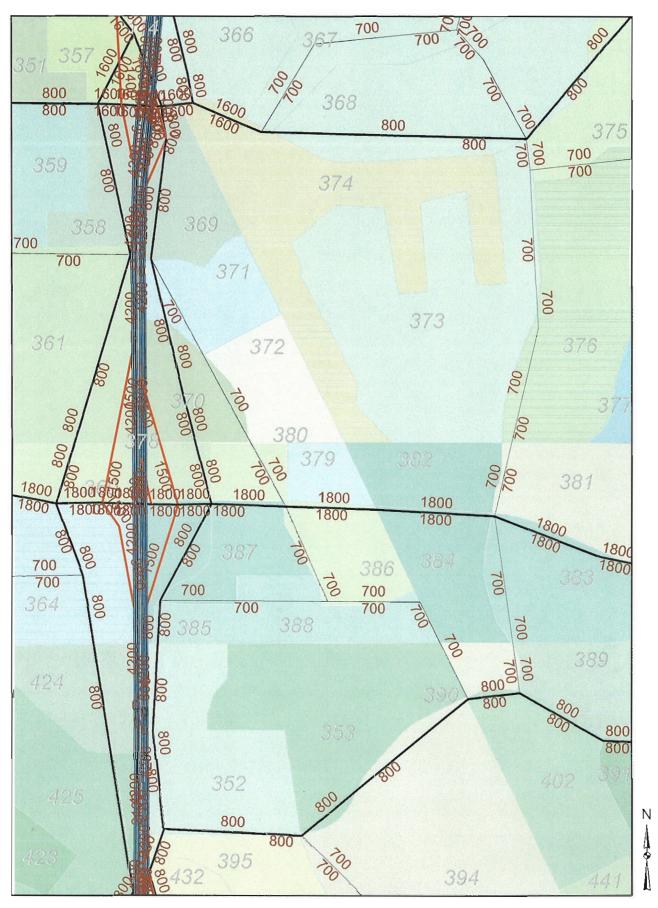
SIDRA

AM Future	è-4	Thu Feb 11, 20	2010 13:	13:26:34			Page	7-1-1-1	PM future		÷.,	Thu Feb	11, 2010	10 13:26:5	6:55		12	Page 7	7-1
	Traffic Capacity Needs Clty o	1 5 2	oture Condi Two Future whert Park	•••	>;	Project	s,	t 1	{ }	Traffic C	PM Pea Capacity	k Hou Needs City	103	re Condi Future	Future Conditions Two Future Roadway obnert Park	y Project	crs		
Threamsta	Level Of Service Computation Report 2600 HCM Operations Method (Base Volume Alexantive Intersection #6 Southwest Blvd/Seed farm Dr	Level Of Service Computation Report Operations Wethod (Base Volume Alternative)	Omputat (Base V	Computation Report	Altern	ative)	h	!	**************************************	202	D9 HCM Operations Method (Back)	Level Of Service C Operations Method	Service Cor	Computation (Base Volum	omputation Report (Base Volume Alternative)	ernative	(6)		7.7.4
Cycle (sec): Loss Time (sec): Optimal Cycle:		00 6 (Y+Red.0 sec) P	Critical Average Level Of	Critical Vol./Cap.(X): Average Delay (sec/veh): Level Of Service:	Vol./Cap.(X): Delay (sec/veh) Service:	X): veh):	k :	0.373 16.00 18.00	Cycle (sec): Loss Time (sec)	* 6		6	* (Uas	Critical Average I Level Of	Critical Vol./Cap.(X): Average Delay (sec/veh)	p.(X): ec/veh):	*	0.506 19.2	* (C C A)
Street Name Approach: Movement:	North B	80	Bound	East	Sout t Bound T -		Blvd West	Bound - R	Street Name: Approach: Movement:	North L - T	See	Farm L	th 30	Ď. R	East B	Sou	St. Blvd West	t Bo	nd R
Control: Rights: Min. Green: Lanes:	Protected Include 0 0 0 0	Protect Ovi	ed 1 0	1 0 1	Protected Include 0 0	- G G	Protected Include 0 0 0	otected Include 0 0 0	Control: Rights: Min. Green: Lanes:	Protection of the contraction of	rotected Include 0	6	Pronected Ovl 0 0		Protected Include 0 0	ted ude 0 0	0 0	rotected Include 0 0	
Volume Module: Base Vol: Growth Adj: 1 Initial Bse: User Adj: 1 PHF Adj: 1 PHF Adj: 1 Reduct Vol: Reduced Vol: Reduced Vol: Reduced Vol: FinalVolume:	16: 0 0 1.00 1.00 1.00 1.00 1.00 1.00 1.00	3.96 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.0			550 1.000 1 1.000 1 550 1 550 1 550 1 550 1 550 1		288. 00. 00. 00. 00. 00. 00. 00.		e Modu Vol: h Adj: al Bse Adj: Olume: t Vol: ed Vol: dj: Volume				1 11 14 00 00 00 00 00 00 00 00 00 00 00 00 00	11.000 11.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12.000 12	123 375 1.00 1.00 123 375 1.00 1.00 1.00 1.00 123 375 1.00 1.00 1.00 1.00 1.03 375 1.03 375	1.00001	000000000000000000000000000000000000000	4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
ation ane: tment:	Elow Module: 1900 1900 1900 1.00 1.00 2.00 0.00 0.90 0.00	1900 1900 0.92 1.00 2.00 0.00 3502 0		1900 1 0.95 0 1.00 2 1805 3	1900 1900 2.00 0 3610	1,000 1,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0	900 1900 .00 0.95 .00 2.00	1900 1900 5 0.85 0 1.00 1615	ration Lane: stment: s:	Flow Modula: 1900 1900 1.00 1.00 0.00 0.00	1900 1000 1000 0000 0000	1900	1,900 1,000 0,00	1900 1 0.85 0 1.00 1 1615 1	1900 1900 0.95 0.95 1.00 2.00 1805 3610	1900	1900	1900 0.95 2.00 3610	- 1 000 1 1 1 000 1 1 1 1 1 1 1 1 1 1 1
Capacity Analysis Vol/Sat: Vol/Sat: Grit Moves: Green/Cycle: Volume/Cap: User DalAd;: User DalAd;: USS Wove: GOS W Move: GOS W Move:	Capacity Analysis Module: VolSat: Capacity Analysis Module: Crit Moves: Green/Cycles: Column/Cycles: Column/Cyc	0 00 0 # * * * * * * * * * * * * * * * *	*	0 1 1 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	0.00	000 0.5 0.00 0.3 0.00 14.3 0.00 14.0 0.0 14.0	* * * * * * * * * * * * * * * * * * *	tty Analate foves: (Cycle: A/Cap: /Veh: //Veh: //Veh: //Veh:	VS15 Moo 0.0000.0000.0000.0000.0000.0000.0000	00000	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	00 00 00 00 00 00 00 00 00 00 00 00 00	1. 14. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	0.07 0.13 0.65 0.51 0.16 0.51 0.16 1.00 1.00 1.00 1.00 8 8 5	0.00 0.00 0.00 0.00 1.000 0.0	0.00 0.00 0.00 0.00 1.00 1.00 1.00 1.00	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	0 + 0 0 0 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
Note: Queue	Note: Queue reported is the number	40 t	Der.	lane.	9. 9. 9. 4.	* * * *	* * * * * * *	***	Note: Queue	reported	is the	ກນແນອເ ******	10 10 10 10 10 10 10 10 10 10 10 10 10 1	S per 2	47.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.	*****	* * * * * * *	***	

Traffix 7.9.0415 (c) 2007 Dowling Assoc. Licensed to W-TRANS, Senta Rosa, CA

Traffix 7.9.0415 (c) 2007 Dowling Assoc. Licensed to W-TRANS, Santa Rosa, CA

MCS+: Orban Streats Release 5.4	Phone: E-Mail: Analyst: Analyst: Analysis Time Period: Future PN Peak Hour Urban Street: Direction of Travel: Commerce Blvd Analysis Year: Analysis Year: 2035 Project ID: RPA907-20	Annual average daily traffic Characteristics Annual average daily traffic, AADT 16350 Planning analysis hour factor, K 0.096 Directional distribution factor, D 0.546 Adjusted saturation flow rate 1800 Percent turns from exclusive lanes 50 % Number of through lanes one direction, N 1 Free flow speed, FFS 3 Section langth No Left-turn bays Signal type, AT Signal type, AT Signal type (k = 0.5 for planning) Actuated Cycle langth, C 6 60 % 60 % 60 % 60 % 60 % 60 % 60 %	dily traffic, AADT ollung al volume 5-min, flow rate or, PF or, PF ed. Sa ed. Sa ed. Sa ed. Sa
HCS+: Orban Streets Release 5.4	Phone: S-Mail: Planing Analyst: Agency/Co.: Date Performed: Chalysts Time Period: Commerce Blvd Direction of Travel: Commerce Blvd Analysts Time Period: Commerce Blvd Direction of Travel: Commerce Blvd Analysts Year: City of Rohnert Park Analysts Year: 2010 Project ID: RRA997-20	Traffic Chaffic Annual average daily traffic, AADT 13750 vpd Two-way hourly volume 13790 vph Hourly directional volume 720 vph Through-volume 15-min. flow rate 75.8 sec VC ratio Through capacity 978 vph Progression factor, PF 978 vph Progression factor, PF 5.5 sec Through melay Progression factor, PF 6.6 sec Total travel speed, Sa 22.4 mph Total urban street 505	

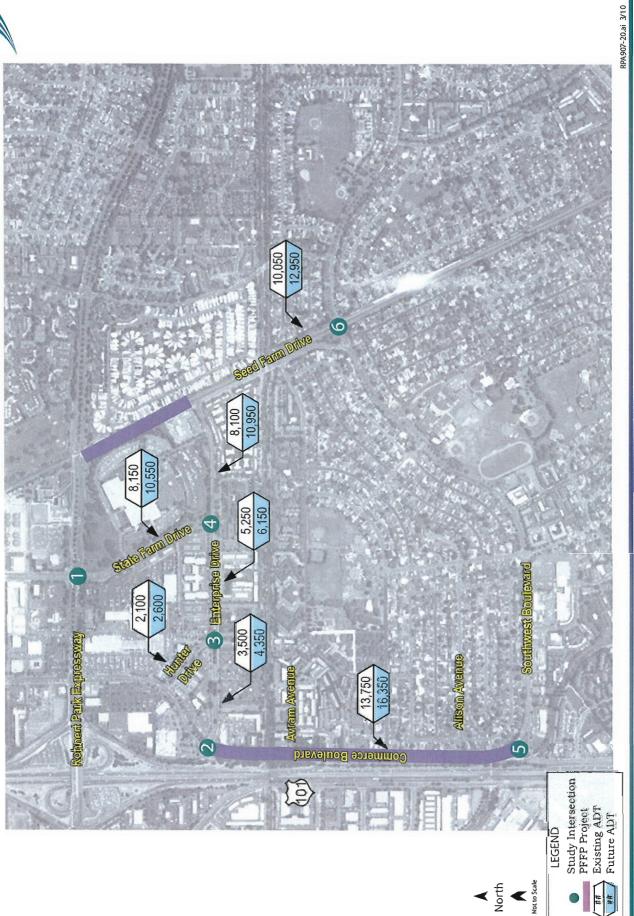


SCTA Model Year 2035 Rohnert Park Area Assumed Roadway Capacitites

w-trans

Review of Traffic Capacity Needs for Two Future Road Projects

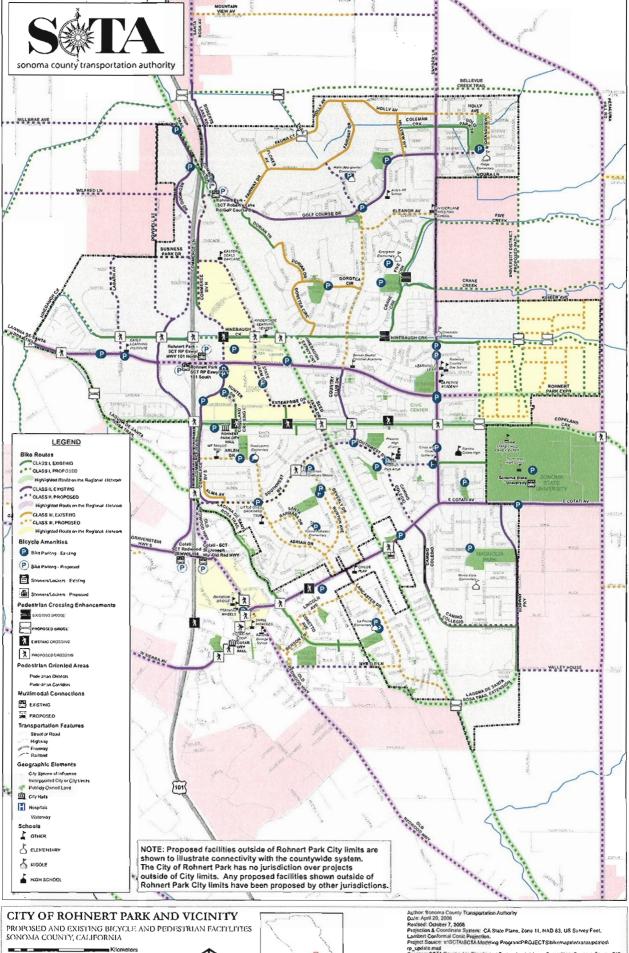
City of Rohnert Park



w-trans

Review of Traffic Capacity Needs for Two Future Road Projects

City of Rohnert Park



0 0.1250.25 0.5 0.75 0 0.125 0.25 0.5



this page intentionally left blank

Appendix D – Canon Manor Agreement

this page intentionally left blank

AGREEMENT BETWEEN SONOMA COUNTY AND THE CITY OF ROHNERT PARK TO PROVIDE PUBLIC WASTEWATER SERVICE TO THE CANON MANOR WEST AREA

Recitals

- 1. This is an agreement (subsequently referred to as the "Agreement") between Sonoma County and the City of Rohnert Park describing the circumstances under which the Rohnert Park will provide public wastewater collection, treatment, and disposal services to the Canon Manor West area. The Canon Manor West area is located in the unincorporated area of Sonoma County near the intersection of Petaluma Hill Road and the East Cotati Avenue. The Canon Manor West area is depicted on the map attached as Exhibit A to this Agreement.
- 2. The City of Rohnert Park is a California City adjacent to the Canon Manor West area. The Canon Manor West area is within Rohnert Park's sphere of influence, as approved by the Local Agency Formation Commission. Sonoma County is a California County within which the Canon Manor West area is currently located.
- 3. Because existing residential septic systems in the Canon Manor West area have caused nitrate contamination of groundwater and water wells and other problems, the Canon Manor West area properties would benefit from (a) public wastewater collection, treatment, and disposal service and (b) a reliable public potable water supply. Rohnert Park is capable of and willing to accept, treat, and dispose of wastewater from the properties in the Canon Manor West area in accordance with the terms of this Agreement. The Penngrove Water Company, a privately owned public utility regulated by the California Public Utilities Commission, is capable of and willing to supply potable water to all properties in the Canon Manor West area.
- 4. In order to calculate the proposed parcel assessments for water and wastewater service, the type of needed improvements to be paid from assessment district bond proceeds must first be determined, and their cost estimated, and the appropriate charge established for each parcel specially benefited. The Canon Manor West property owners will subsequently decide in 2001 whether or not to approve an assessment district that will pay for public wastewater collection and treatment service and potable water service and related costs.

- 5. In this Agreement Sonoma County and Rohnert Park desire to set forth the public wastewater services which Rohnert Park agrees to supply to existing lots in the Canon Manor West area. Sonoma County will then be able to allocate the estimated cost of those improvements to each parcel in proportion to the special benefit conferred on that parcel. Pursuant to state law, the owners of the parcels for which an assessment is proposed will receive a ballot indicating their support or opposition to the proposed assessment. Subsequently the assessment district may or may not be formed, depending upon the outcome of the legally required protest ballot procedure and other state law requirements. In addition, the owners of the parcels for which an assessment is proposed will vote whether or not to approve an annual wastewater and private road maintenance fee that will be used to reimburse:
 - (a) Rohnert Park for operating and maintaining, in good working order, the wastewater collection system in Canon Manor West, and
 - (b) Sonoma County for the costs of annually maintaining the roads used for access to the wastewater collection system and to properties within Canon Manor West.
- 6. Rohnert Park and Sonoma County wish to enter into this Agreement pursuant to the authority of, and to satisfy the requirements of, Streets and Highways Code §§10109 through 10111, and specifically Streets and Highways Code §10110.

Agreement

7. <u>OBLIGATIONS SET FORTH IN THIS AGREEMENT CONTINGENT ON THREE</u> EVENTS.

The contractual obligations of the parties to this Agreement are contingent upon the occurrence of all of the following four events:

- A. The formation of assessment district in 2001, and property owner approval in 2001 of the proposed annual wastewater system maintenance fee (to reimburse Rohnert Park) and annual access road maintenance fee or sewer road maintenance fee (to reimburse Sonoma County); provided, however, that if the road maintenance fee or sewer road maintenance fee is not approved, Sonoma County and Rohnert Park shall meet and confer in order to reach an agreement to maintain the roads in the condition necessary to allow Rohnert Park to fulfill its obligations under paragraph 8.4 of this Agreement.
- B. Approval of a mutually satisfactory agreement between Sonoma County and the Penngrove Water Company for public potable water supply to the Canon Manor West area.

- C. The County's receipt of a legally acceptable bid, in an amount equal to or less than the available assessment district construction budget and funding, for the non-water system portion of the assessment district improvements.
- D. The execution of an agreement in 2001 between the City of Santa Rosa and the City of Rohnert Park transferring a portion of Santa Rosa's allocation of sewer treatment capacity ("Interim Agreement") on terms and conditions that are consistent with the obligations of the City of Rohnert Park pursuant to this Agreement

If an assessment district is not formed for the Canon Manor West area in 2001 or if the property owners do not approve the proposed annual maintenance fee, neither Sonoma County nor Rohnert Park shall have any further obligations under this Agreement, and this Agreement shall automatically terminate and have no further force or effect. If a mutually satisfactory agreement between Sonoma County and the Penngrove Water Company for public potable water services is not signed in 2001, neither Sonoma County nor Rohnert Park shall have any further obligations under this Agreement, and this Agreement shall automatically terminate and have no further force or effect. If Sonoma County does not receive a legally acceptable bid, in an amount equal to or less than the available assessment district construction budget and funding, for the non-water system portion of the assessment district improvements, neither Sonoma County nor Rohnert Park shall have any further obligations under this Agreement, and this Agreement shall automatically terminate and have no further force or effect.

If an assessment district is formed for the Canon Manor West area in 2001 and if the property owners approve the proposed annual maintenance fee and if a mutually satisfactory agreement between Sonoma County and the Penngrove Water Company is signed in 2001 and if Sonoma County receives a legally acceptable bid within budget for the non-water system portion of the assessment district improvements, Sonoma County, and if the Interim Agreement provides sufficient sewerage capacity to the City of Rohnert Park to allow the City of Rohnert Park to comply with the terms of this Agreement, then Rohnert Park shall fulfill the obligations set forth in the following paragraphs of this Agreement and Sonoma County shall fulfill the obligations set forth in the following paragraphs of this Agreement. Pending a decision on the formation of an assessment district for the Canon Manor West area, both Sonoma County and Rohnert Park shall reasonably cooperate with each other on matters related to the proposed assessment district for the Canon Manor West area.

8. OBLIGATIONS OF ROHNERT PARK IF ASSESSMENT DISTRICT IS FORMED AND THE PROPERTY OWNERS APPROVE THE PROPOSED ANNUAL MAINTENANCE FEE AND SONOMA COUNTY AND THE PENNGROVE WATER COMPANY APPROVE A MUTUALLY SATISFACTORY AGREEMENT AND SONOMA COUNTY RECEIVES CONSTRUCTION BIDS WITHIN BUDGET.

If an assessment district is formed in 2001 and if the property owners approve the proposed maintenance fee and if a mutually satisfactory agreement between the Penngrove Water Company and Sonoma County for a potable water supply is signed not later than December 31, 2001 and if Sonoma

County receives bids for the non-water system portion of the assessment district improvements that are within budget, Rohnert Park shall do the following:

- 1. Promptly review, and approve, disapprove, or modify, in accordance with existing City standards for wastewater collection systems, detailed plans and specifications prepared by County for the construction of the wastewater collection system within the Canon Manor West area and an emergency potable water connection to Rohnert Park's potable water system. The terms and conditions pursuant to which Rohnert Park shall provide an emergency potable water connection shall be determined by mutual agreement of Sonoma County and Rohnert Park.
- 2. Approve, disapprove, or modify the contract for construction of the wastewater collection system. Upon completion of the construction of the wastewater collection system within the Canon Manor West area according to the approved plans and specifications, maintain that system using the same maintenance standards applied to wastewater collection systems in Rohnert Park.
- 3. Accept annually from Sonoma County a sum equal to an amount determined annually by the City of Rohnert Park as Rohnert Park's annual charges to maintain the wastewater collection system improvements and treat and dispose of the wastewater from Canon Manor West. Said annual charge shall be limited to an amount equal to the adopted charge to maintain the wastewater collection system improvements imposed on Rohnert Park residents plus an amount equal to five percent (5%) of that charge.
- After completion of the construction of the wastewater system improvements within 4. the Canon Manor West area, completion of the Geysers Project of the Santa Rosa Subregional Sewerage System, payment of the Rohnert Park sewer connection fee, and acceptance of the improvements by the County, operate and maintain the wastewater collection system and accept and treat and dispose of wastewater from 220 lots in Canon Manor West. A map of these 220 lots is attached to this Agreement as Exhibit A and incorporated here by this reference. The obligation of Rohnert Park that is set forth in this paragraph shall be suspended in the event that the Interim Agreement does not allow Rohnert Park to perform this obligation. In the event that the Interim Agreement reduces the allocation of sewerage treatment capacity available to Rohnert Park, the obligation of Rohnert Park set forth in this paragraph shall be reduced proportionately. For the period beginning on the date the Geysers Project is complete and continuing for twelve months, the Rohnert Park sewer connection fee shall be \$5,910. After this twelve month period, the sewer connection fee payable by property owners within Canon Manor West shall be the sewer connection fee in effect on the date application for connection is submitted to the City of Rohnert Park.

- At the time of, or before, City operation of the Canon Manor West wastewater system begins, apply service rules, regulations, and standards; establish user, service, and connection fees; accept grants of easements for the wastewater system and other land rights as appropriate, and establish standards for the construction of any new sanitation facilities that may connect to the Canon Manor West wastewater system. Rates and charges shall be established, and may be revised in the future.
- 6. Cooperate reasonably with all entities utilizing the public utility right of way in the Canon Manor West area.
- 9. OBLIGATIONS OF SONOMA COUNTY IF ASSESSMENT DISTRICT IS FORMED AND THE PROPERTY OWNERS APPROVE THE PROPOSED MAINTENANCE FEE OR SEWER ROAD MAINTENANCE FEE AND SONOMA COUNTY AND THE PENNGROVE WATER COMPANY APPROVE A MUTUALLY SATISFACTORY AGREEMENT.

If an assessment district is formed in 2001 and if the property owners approve the proposed annual maintenance fee (or a sewer road maintenance fee) and if a mutually satisfactory agreement between the Penngrove Water Company and Sonoma County for a potable water supply is signed not later than December 31, 2001, Sonoma County shall do the following, but only to the extent funds become available to the County through the proceeds of property owner cash payments on account of assessments levied or the proceeds of the sale of securities issued pursuant to the Improvement Bond Act of 1915 or the property owner approved annual maintenance fee:

- 1. Complete and approve detailed plans for the design of the wastewater collection system and access road and coordinate the design of water supply improvements to be installed in the Canon Manor West area. A general description of the wastewater collection system is set forth in Exhibit B to this Agreement. The Rohnert Park City Engineer shall be consulted regularly and shall have the authority to approve, disapprove, or modify the final design, so that the final design of the wastewater collection system and emergency potable water supply connection meets city standards.
- 2. Complete environmental review pursuant to the California Environmental Quality Act of the improvements to be installed in the Canon Manor West area.
- Acquire the easements needed to construct the water, wastewater, access road, emergency wastewater supply improvements, and roads sufficient to improve the roads to the Street Standards, to be installed in the Canon Manor West area, and convey to the Penngrove Water Company appropriate easements upon substantial completion of the construction of the water, so that the Penngrove Water Company will own the water system and associated easements.

- 4. Call for bids to construct the wastewater and access road and emergency water supply improvements to be installed in the Canon Manor West area in accordance with the approved final design, evaluate the bids received, and award the construction contract to the lowest responsive and responsible bidder if such bid is within budget and Sonoma County elects to award the contract. Sonoma County shall require the contractor to name the City of Rohnert Park as a beneficiary on the required performance bond, and to name the City of Rohnert Park as an additional insured (with an endorsement approved by the City Attorney) on the required insurance. Sonoma County shall also have the discretion to either reject all bids and abandon the project or rebid the project, as its Board of Supervisors finds appropriate.
- 5. Administer the construction contract, if awarded, and inspect the work performed for compliance with the construction contract documents and accept the work when completed in accordance with the contract documents. The Rohnert Park City Engineer shall be consulted at regular intervals during the construction work, so that the City is satisfied that such work meets the city standards that were incorporated into the construction contract documents.
- Annually maintain the access roads used to access the wastewater and water system and also used for access by property owners in Canon Manor West from revenues received from the proposed road maintenance fee or the proposed sewer road maintenance fee; provided, however, that if Sonoma County fails to maintain said roads due to the property owners' failure to approve either the road maiantenance fee or the proposed sewer road maintenance fee, Rohnert Park shall be under no further obligation to provide connections to the Santa Rosa Subregional Sewer System in Canon Manor West.
- 7. Cooperate reasonably with all entities utilizing the public utility right of way in the Canon Manor West area.
- 8. Pay the City of Rohnert Park a bi-monthly maintenance and operations fee to maintain the wastewater collection system and pay the City of Rohnert Park the annual sewerage treatment fee imposed by the Santa Rosa Subregional Sewer System in amounts determined by the City of Rohnert Park and Board of Public Utilities of the City of Santa Rosa, respectively. Annually, not later than February 1, Rohnert Park will advise the County of any fee increases for the following fiscal year. In the event the County is unable by law to charge the property owners within Canon Manor West the increased fees, the County shall pay the increased fee to Rohnert Park. The County and Rohnert Park agree to cooperate reasonably and consider taking appropriate action to terminate wastewater service to those customers who may choose not to pay the full costs of that service.

- 9. Indemnify, defend and hold harmless the City of Rohnert Park from damages to property and injury to persons arising from the construction of the wastewater collection system in Canon Manor West.
- Impose a sewer road maintenance fee on property owners within Canon Manor West, in an amount sufficient to allow the County to maintain the roads necessary for the provision of sewer service by the City of Rohnert Park, if the road maintenance fee that is pending on the date this Agreement is executed is disapproved by the property owners.

10. <u>NEW CONSTRUCTION IN CANON MANOR WEST MUST BE APPROVED BY</u> ROHNERT PARK AND MEET CITY STANDARDS.

Because Canon Manor West is in the sphere of influence of Rohnert Park, and because Rohnert Park is providing urban services (wastewater collection, treatment, and disposal), and because Canon Manor West will eventually be annexed into the City of Rohnert Park, the parties agree that all new construction in Canon Manor West should be, to the extent feasible, consistent with the development standards of Rohnert Park. To that end, the parties agree that:

- 1. Sonoma County shall develop a specific plan for Canon Manor West as part of the update of its General Plan. Sonoma County shall consider adopting and imposing development standards for the Canon Manor West Area that are consistent with the City of Rohnert Park's development standards for Rural Residential. A copy of the Rural Residential standards are attached to this Agreement as Exhibit <u>C</u> Sonoma County shall refer all applications for development within Canon Manor West to Rohnert Park for review, comment, and consultation prior to taking action on such applications. Sonoma County shall issue a building permit for a single family residence within Canon Manor only after receipt of a written certification from the Rohnert Park City Engineer that the then applicable sewer connection fee has been paid to the City
- 2. Sonoma County shall require, as a condition of development within the Canon Manor West Area, the dedication of right-of-way to allow construction of roads to the standards imposed by the City of Rohnert Park. A copy of those standards are attached to this Agreement as Exhibit D ("Street Standards").
- 3. Sonoma County shall adopt and impose on all lots within the Canon Manor West Area, as a condition of development, a development impact fee in compliance with the requirements of Government Code §§ 66000 et seq., that defrays the cost of improving streets in Canon Manor West to the Street Standards ("Street Improvement Fee"). Sonoma County shall establish the fee in an amount sufficient to provide funding to improve the streets within Canon Manor West to the Street Standards. Sonoma County

shall impose the Street Improvement Fee on all development approvals, including the issuance of a building permit, within Canon Manor West. Imposition and collection of the Street Improvement Fee shall be in accordance with the requirements of Government Code §§ 66000 et seq. The revenues collected from such a fee shall be retained by the County in a separate fund and, at the option of the City of Rohnert Park, either be used as funds become available to improve the streets in Canon Manor West to the Street Standards within five (5) years of the date the first home is connected to the City of Rohnert Park's wastewater collection system, or transferred, with interest, to the City of Rohnert Park for use by Rohnert Park to improve the streets within Canon Manor West to the Street Standards. Sonoma County and Rohnert Park shall establish priorities for use of the funds by mutual agreement.

4. Sonoma County agrees that it may only approve or allow the construction of a second unit on any lot within Canon Manor West if and only if the streets that serve that lot have been improved to the Street Standards.

11.0 INSURANCE.

With respect to performance of work under this Agreement, County shall require the contractor to whom the construction contract is awarded to add Rohnert Park as an additional insured on the commercial general liability policy required by County from the contractor.

11.1 STATUS OF ROHNERT PARK AND SONOMA COUNTY.

The parties intend and agree that each of them, in performing the obligations specified in this Agreement, shall act as independent contractors and shall control the work and the manner in which it is performed. Neither party is an employee or agent of the other party.

11.2. ASSIGNMENT AND DELEGATION.

Neither party hereto shall assign, delegate, sublet, or transfer any interest in or duty under this Agreement without the prior written consent of the other, and no such transfer shall be of any force or effect whatsoever unless and until the other party shall have so consented.

11.3. <u>METHOD AND PLACE OF GIVING NOTICE, SUBMITTING BILLS AND MAKING PAYMENTS.</u>

All notices, bills, and payments shall be made in writing and may be given by personal delivery or by mail. Notices, bills, and payments sent by mail shall be addressed as follows:

TO COUNTY:

Sonoma County Director of Transportation & Public Works 575 Administration Drive Room 117A Santa Rosa, Ca. 95403

TO ROHNERT PARK:

City Manager City of Rohnert Park 6750 Commerce Boulevard Rohnert Park, Ca. 94928

and when so addressed, shall be deemed given upon deposit in the United States mail, postage prepaid. In all other instances, notices, bills, and payments shall be deemed given at the time of actual delivery. Changes may be made in the names and addresses of the person to whom notices, bills, and payments are to be given by giving notice pursuant to this paragraph.

11.4 NO WAIVER OF BREACH.

The waiver by County of any breach of any term or promise contained in this Agreement shall not be deemed to be a waiver of such term or provision or any subsequent breach of the same or any other term or promise contained in this Agreement.

11.5 CONSTRUCTION AND COUNSEL.

Rohnert Park and County acknowledge that they have each contributed to the making of this Agreement and that, in the event of a dispute over the interpretation of this Agreement, the language of the Agreement will not be construed against one party in favor of the other. Rohnert Park and County acknowledge that they have each had an adequate opportunity to consult with counsel in the negotiation and preparation of this Agreement.

11.6 NO THIRD PARTY BENEFICIARIES.

Nothing contained in this Agreement shall be construed to create and the parties do not intend to create any rights in third parties.

11.7 APPLICABLE LAW AND FORUM.

This Agreement shall be construed and interpreted according to the substantive law of California excluding the law of conflicts. Any action to enforce the terms of this Agreement or for the breach thereof shall be brought and tried in the County of Sonoma.

11.8 CAPTIONS.

The captions in this Agreement are solely for convenience of reference. They are not a part of this Agreement and shall have no effect on its construction or interpretation.

11.9 MERGER.

This writing is intended both as the final expression of the Agreement between the parties hereto with respect to the included terms and as a complete and exclusive statement of the terms of the Agreement, pursuant to Code of Civil Procedure Section 1856. No modification of this Agreement shall be effective unless and until such modification is evidenced by a writing signed by both parties.

11.10 TIME OF ESSENCE.

Time is and shall be of the essence of this Agreement and every provision hereof. The parties hereto have executed this Agreement on the dates set forth below.

DATED: //-27-01 ROHNERT PARK By: M. Netter, City Manager Per Resolution No. 2001-228 adopted by the Rohnert Park City Council at DATED: 12/19/0/ COUNTY OF SONOMA COUNTY OF SONOMA Chairman **Board of Supervisors**

ATTEST:

Eve? Leusa EEVE T. LEWIS, County Clerk and

ex-officio Clerk of the Board of

Supervisors

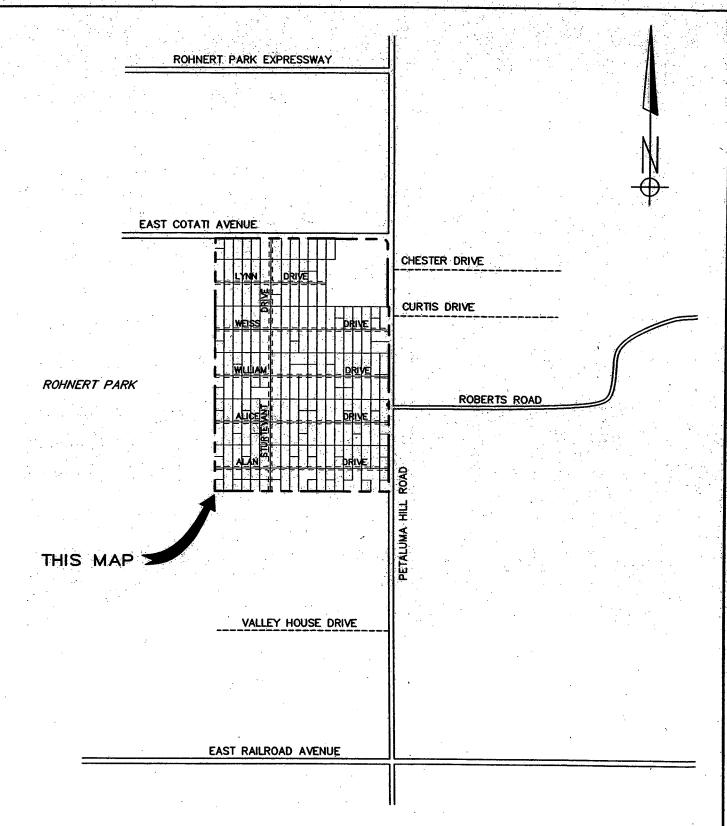
Sonoma County Counsel

APPROVED AS TO FORM:

DATED: 1/27 0 By: Rohnert Park City Attorney

EXHIBIT A

(map of Canon Manor West area)



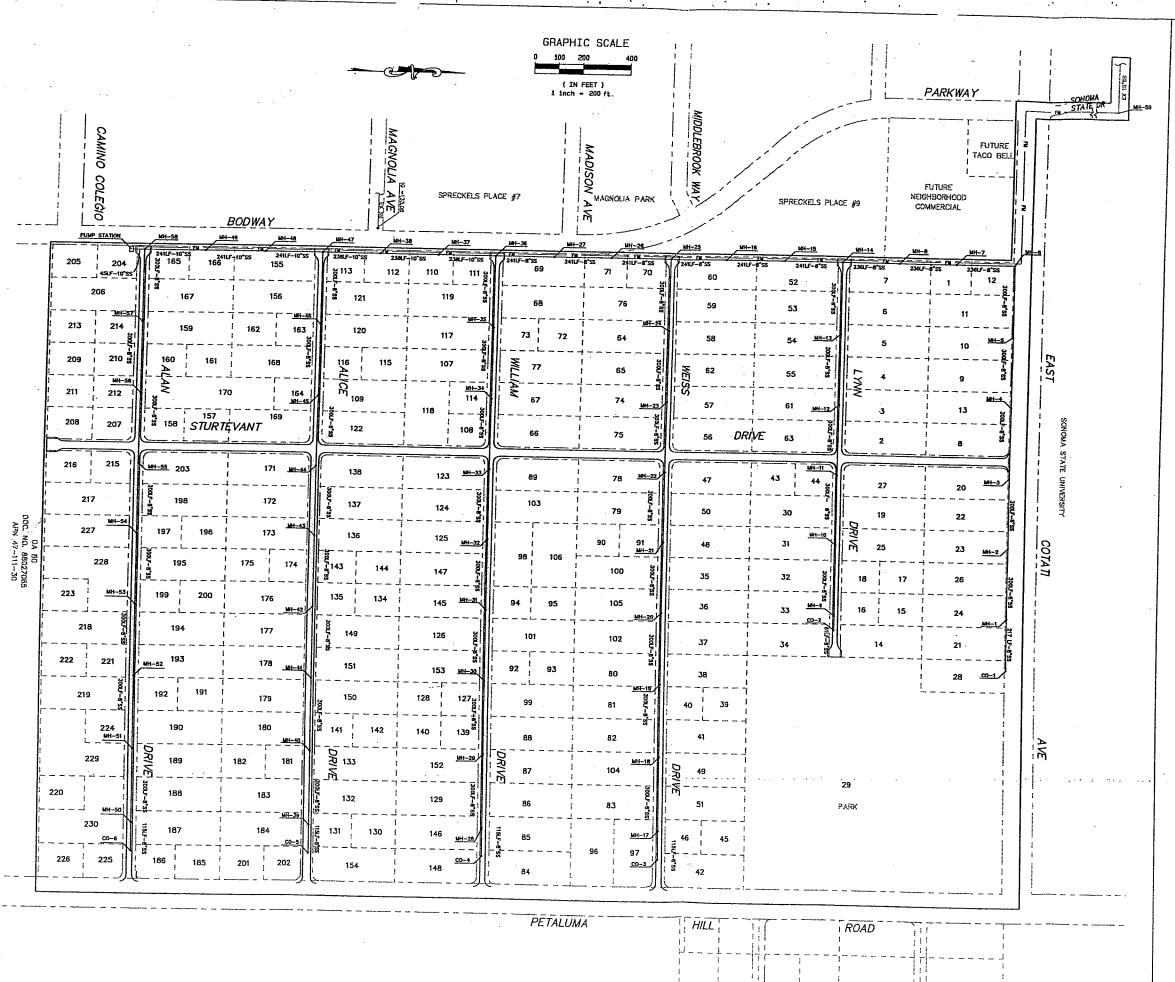
LOCATION MAP NOT TO SCALE

BOUNDARIES OF CANON MANOR WEST ASSESSMENT DISTRICT

EXHIBIT A

EXHIBIT B

(description of wastewater system improvements)



CONCEPTUAL SANITARY SEWER SYSTEM IMPROVEMENT PLAN

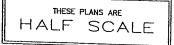
CANON MANOR WEST ASSESSMENT DISTRICT

COUNTY OF SONOMA

JULY 2001

	BOUNDARY
	PROPOSED RIGHT-OF-WAY
	EXISTING LOT LINE
	PROPOSED SEWER MAIN, MH. CLEANOUT, FLOW DIRECTION
FN	FORCE MAIN, DIRECTION
	PROPOSED EDGE OF PVMT
MH-14	MANHOLE ID#
CO-3	CLEANOUT ID#
36	ASSESSMENT DIAGRAM NUMBER

LEGEND



PREPARED BY

COUNTY OF SONOMA
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
EDWARD J. WALKER, DIRECTOR

575 ADMINISTRATION DR., ROOM 117A SANTA ROSA, CA 95403 (707) 565-2231

EXHIBIT C

Comparison of County Rural Residential District (RR) and Proposed City Rural Residential District (RR) and Rural Estate District (RE)

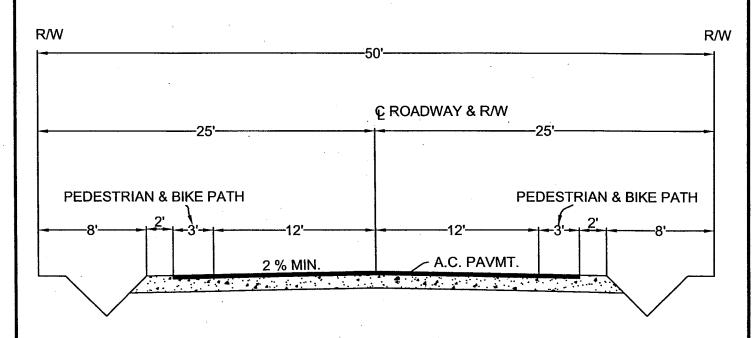
Development Standards

Standard 2 2 2	County RR District	City RR Districts (Proposed)	City RE District: ***
Residential Density	1 unit/acre	1 unit/acre	2 units/acre
Minimum Lot Size	1 acre	40,000 sq. ft.	18,000 sq. ft.
Minimum Lot Width	80 feet	100 feet	100 feet
Maximum Lot Coverage	35 percent	35 percent *	35 percent *
Maximum Building	35 feet	35 feet	35 feet
Height			
Setbacks			
Front Yard	20 feet	50 feet	25 feet
Side Yard	5 feet	10 feet	10 feet
Rear Yard	20 feet	50 feet	25 feet
Residential Parking	1 covered space per unit	2 covered spaces per unit	2 covered spaces per unit

^{*} Not in current draft ordinance, but proposed to be added.

Land Uses

	County ReDistrict	Cin aradistical	City RED District Constitution
Land User 1994 1995			(Rioposed)
Agriculture	Permitted	Use Permit	Use Permit
Animal Breeding	Permitted with limitations, larger operations require use	Use Permit	Use Permit
	permit		<u> </u>
Art Studios	Use Permit	Administrative Approval	Administrative Approval
		(as Home Occupation)	(as Home Occupation)
Bed and Breakfast	Use Permit	Use Permit	Use Permit
Cemeteries	Use Permit	Not Permitted	Not Permitted
Clubs and Lodges	Use Permit	Not Permitted	Not Permitted
Community Care	Permitted with limitations,	Permitted with	Permitted with
Facility	larger operations require use	limitations, larger	limitations, larger
	permit	operations require use	operations require use
, 		permit	permit
Condominiums	Use Permit	Not Permitted	Not Permitted
Day Care Center	Use Permit	Use Permit	Use Permit
Family Day Care	Permitted	Permitted	Permitted
Golf Course	Use Permit	Not Permitted	Not Permitted
Guest House	Permitted	Administrative Approval	Administrative Approval
Home Occupations	Permitted	Administrative Approval	Administrative Approval
Schools	Use Permit	Use Permit	Use Permit
Second Unit	Not Permitted with "Z" District	Administrative Approval	Administrative Approval
Single Family Home	Permitted	Permitted	Permitted
Travel Trailer	Administrative Approval	Not Permitted	Not Permitted



RURAL RESIDENTIAL STREET

CITY OF ROHNERT PARK EXHIBIT "D" RURAL RESIDENTIAL STREET

Scale: NONE

Date: OCTOBER 2001

Appendix E – Adopted Goals and Policies for Mello Roos Financing Districts

this page intentionally left blank

RESOLUTION NO. 2006-276

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF ROHNERT PARK APPROVING A

STATEMENT OF LOCAL GOALS AND POLICIES CONCERNING THE USE OF THE MELLO-ROOS COMMUNITY FACILITIES ACT OF 1982

WHEREAS, pursuant to Section 53312.7 of the California Government Code a local agency may initiate proceedings to establish a Community Facilities District (CFD) only if it has first considered and adopted Local Goals and Policies Concerning the use of the Mello-Roos Community Facilities Act of 1982; and

WHEREAS, a CFD is one of three (3) approved principal financing mechanisms utilized in the City of Rohnert Park's Public Facilities Finance Plan; and

WHEREAS, the City of Rohnert Park (City) has agreed to use its best effort to adopt Local Goals and Policies within ninety (90) days following the Effective Date of the City's Development Agreement with the University District LLC and Vast Oak Properties L.P.; and

WHEREAS, the Local Goals and Policies are designed to ensure that CFDs created are made for the public good and comply with all relevant laws, acts and agreements; and

WHEREAS, the Goals and Policies may be amended or supplemented by City Council resolution at any time, and approval does not obligate the City Council in any way to create CFDs if they meet the parameters set forth; and

BE IT RESOLVED by the City Council of the City of Rohnert Park that it does hereby authorize and approve The City of Rohnert Park Statement of Local Goals and Policies Concerning the use of the Mello-Roos Community Facilities Act of 1982, as outlined in Exhibit "A" attached.

DULY AND REGULARLY ADOPTED this 28th day of November , 2006

CITY OF ROHNERT PARK

Mayor Tim Smith

ATTEST:

City Clerk Deputy

in the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se

BREEZE: <u>AYE</u> FLORES: <u>AYE</u> MACKENZIE: <u>AYE</u> VIDAK-MARTINEZ: <u>ABSENT</u> SMITH: <u>AYE</u> AYES: (4) NOES: (0) ABSENT: (1) ABSTAIN: (0)

EXHIBIT "A"

CITY OF ROHNERT PARK STATEMENT OF LOCAL GOALS AND POLICIES CONCERNING THE USE OF THE MELLO-ROOS COMMUNITY FACILITIES ACT OF 1982

Pursuant to Section 53312.7 of the California Government Code, the City Council of Rohnert Park (hereafter the "City Council") hereby states its goals and policies concerning the use of the Mello-Roos Community Facilities Act of 1982, Section 53311, et seq. of the California Government Code (hereafter the "Act"), in providing adequate public infrastructure improvements for the City of Rohnert Park (the "City") and in refunding existing debt on land within the City. In addition, the Act may be used to provide for the maintenance, repair, reconstruction and replacement of any of the foregoing infrastructure improvements. The following goals and policies shall apply to each community facilities district (a "CFD") hereafter formed by the City.

Any policy or goal stated herein may be supplemented or amended or deviated from, and new goals and policies may be added hereto, from time to time upon a determination by the City Council that such supplement, amendment, deviation or addition is necessary or desirable. Any policy or goal stated herein shall be deemed amended or supplemented in the event, and as of the date, if ever, that such amendment or supplement is required to ensure compliance with:

- a. Development Agreements entered into or amended by the City in accordance with Government Code Section 65864 et. seq.;
- b. The Act;
- c. Any other laws of the State of California; or
- d. Laws of the United States of America.

1. Priority for Financing Various Kinds of Public Facilities Through the Use of the Act.

It is the policy of the City to give priority to the financing, through the use of the Act, as follows:

- a) Refinancing of pre-existing assessment liens and refunding of any bonds secured by said liens as these may affect land within the CFD;
- b) Financing of the design, construction and/or acquisition of public infrastructure identified in the City's Public Facilities Finance Plan (PFFP) as it may be amended from time to time, as such infrastructure mitigates impacts caused by development occurring within the CFD, and to the extent that such infrastructure may lawfully be financed under the Act; and
- c) Financing of the design, construction and/or acquisition of other public infrastructure improvements directly benefiting the City, which improvements may include, but are not limited to, in-track improvements, park improvements, storm drainage improvements, public roadways and sidewalks.

It is also the policy of the City to assist in the financing of the design, construction and/or acquisition of other public facilities, through the use of Joint Public Facilities Financing Agreements, when to do so will, in the sole discretion of the City Council acting as the legislative body of the affected CFD, result in a savings to residents or property owners, for example, by reducing costs of bond issuance

and/or administrative expenses. Such joint financing assistance shall be considered when it does not interfere with the financing of public infrastructure improvements directly benefiting the City.

2. Credit Quality Required of Bond Issues, Including Criteria in Evaluating the Credit Quality.

It is the policy of the City that prior to the issuance of any CFD bonds, the following conditions shall be met:

- a) Maximum special tax revenues from the CFD are reasonably expected to provide at least one hundred ten percent (110%) debt service coverage for each year of the term of such bonds;
- b) The bond issuance document establishes, and includes a covenant to cause special taxes to be levied in an amount sufficient to maintain, for the term of such bonds an adequately funded reserve fund securing such bonds in accordance with the regulations of the Internal Revenue Service (IRS).

In addition, in cases when development interests (Proponents) petition for CFD formation, the City may require that Proponents provide a letter of credit or other credit enhancement instrument in form and amount reasonably satisfactory to the City which is sufficient to ensure payment of the principal and interest payments on the CFD bonds for up to two (2) years following issuance thereof (computed without regard for the availability of capitalized interest or amounts on deposit in a debt service reserve fund).

Further, it is the policy of the City to comply with all provisions of the Act including, but not limited to, Section 53345.8, as such Section may be amended from time to time.

3. Steps to Ensure that Prospective Property Purchasers Are Fully Informed About Their Taxpaying Obligations.

It is the goal of the City that the CFD Proponents provide actual and conspicuous notice to all potential homeowners, taxpayers residing within, or taxpayers owning property within, the boundaries of a CFD.

In order to comply with this goal, it is the policy of the City that:

- a) All notices provided by the CFD Proponents shall be in compliance with applicable legal requirements, including, without limitation, applicable provisions of Government Code Section 53341.5;
- b) The form of such notice shall be acceptable to the City and shall at a minimum provide a comprehensive listing of all the fees, taxes and assessments to be charged to any and all owners of property within the CFD;
- c) The proposed form of such notice shall be submitted to the City, for review, at the same time that petitions requesting formation of the CFD are submitted; and
- d) The Proponents shall make revisions to the proposed form of notice as requested by the City;

It is the policy of the City to refrain from the issuance of any CFD bonds until the aforementioned notice is approved.

It is further the policy of the City that:

- a) In conformance with the Act, the Proponents shall provide potential property owners with a written and itemized notice of such projected costs and the manner in which they will be charged, which notice the potential property owner will sign;
- b) The Proponents shall provide a copy of each signed notice to the City's Community Development Director;
- c) The Proponents shall retain a copy of such notice in Proponents' files for at least fifteen (15) years following the date of such notice.

It is further the policy of the City to provide Section 53340.2 notice of special tax to any individual requesting such notice or any owner of property subject to a special tax levied by the City within five (5) working days of receiving a request for such notice.

4. Criteria for Evaluating the Equity of Tax Allocation Formulas, and Concerning Desirable and Maximum Amounts of Special Tax.

It is the goal of the City that each taxpayer residing within, or owning property within, the boundaries of any CFD hereafter established by the City pay special taxes which generally reflect such taxpayer's fair and reasonable share of his or her projected benefit from, and/or burden upon, the facilities to be constructed and/or maintained or of any refunding of existing debt within the CFD by such CFD.

It is the goal of the City that maximum special taxes on residential owner-occupied property, when taken together with (a) ad valorem taxes, (b) all other special taxes levied pursuant to the Act and (c) all assessments applicable to such property, do not exceed in any year 1.75% of the greater of the parcel's assessed value or a reasonable estimate of the sale price for the parcel and the residential or commercial unit to be constructed thereon.

In order to comply with this goal and when the Proponent requests that a "reasonable estimate" be used to calculate the maximum allowable special tax it is the policy of the City that:

- a) At least 120 days prior to the anticipated election date, as defined in the Act, the Proponent, at its cost, shall submit its method of estimating value for approval by the City;
- b) At least 100 days prior to the anticipated election date, the City shall provide the Proponent with requested changes to said method; and
- c) At least 30 days prior to the anticipated election date, the Proponent, at its cost, shall provide the City with the estimated values to be used in making the final determination of the maximum special tax.

It is the policy of the City to refrain from the issuance of any CFD bonds until the aforementioned appraisal process is satisfactorily completed.

It is further the policy of the City that the rate method of apportionment for special tax levied pursuant to the Act be drafted to allow a property owner to permanently satisfy the special tax (and remove the lien thereof) as to any taxable parcel by prepayment pursuant to Section 53344 of the Act.

It is further the policy of the City not to permit the escalation of maximum taxes.

5. Definitions, Standards, and Assumptions for Appraisals Required by Section 53345.8.

It is the goal of the City to conform, as nearly as practicable, to the California Debt and Investment Advisory Commission's Appraisal Standards for Land-Secured Financings, as such standards may be amended from time to time, provided, however, that the City Council may additionally amend such standards from time to time as it deems necessary and reasonable, in its own discretion, to provide needed infrastructure improvements within the City, while still accomplishing the goals set forth herein.

6. Standard for Advance of Expenses; Reimbursement.

It is the policy of the City that the Proponents of the CFD shall advance to the City actual out of pocket costs of formation of the CFD, sale of CFD bonds, and other costs and expenses associated with the CFD ("Advanced Costs"). Such Advanced Costs may include, without limitation, legal, financial, appraisal and engineering costs and expenses associated with:

- a) Formation of the CFD;
- b) Determination of the rate and method of apportionment and levy of the special tax;
- c) Review and approval of the plans and specifications for construction of the improvements;
- d) Determination of the value of the property;
- e) Sale of CFD bonds; and
- f) Any other costs or expenses reasonably incurred in connection with the CFD.

It is further the policy of the City that all such Advanced Costs, together with those reasonable out-of-pocket legal, engineering, and financial services costs incurred by Proponent directly related to establishment and implementation of the CFD, which may lawfully be financed under the Mello-Roos Act and other applicable law, shall be reimbursed from proceeds of the sale of CFD bonds in accordance with the provisions of the Reimbursement Agreement described below. However, in the event that the City is unable to make legally required findings in connection with the formation of the CFD and the issuance of CFD bonds for any reason, the City shall not be liable for any costs incurred by Proponents.

It is the policy of the City that when the proceeds of CFD bonds will be used for either reimbursement of costs incurred by Proponents or acquisition of facilities constructed by Proponents that City and Proponents will enter into a either a Reimbursement or Funding and Acquisition Agreement. The form of said agreements shall be reasonably acceptable to the City's bond counsel setting forth, among other things, the procedures for and mechanisms by which Proponents will be reimbursed, out of available proceeds of the CFD bonds, for improvements constructed and/or paid for by Proponents.

7. Issuance of Bonds

It is the goal of the City that the amounts, timing and terms of the issuance and sale of the CFD bonds shall be coordinated, as closely as possible, with the phasing of the development of the property to provide financing for the improvements in a timely fashion to meet the needs of the respective phases of development of the project. If necessary, the CFD bonds may be issued in series to help correspond to such phases. The amounts, timing and terms of the issuance and sale of the

CFD bonds shall be determined by the City, in consultation with the Developer, and the City's bond counsel, financial advisors an/or underwriters.

It is the policy of the City that the Proponents shall commit in writing at least 30 days before the election date to the following:

- a) To assist the City in the issuance of the CFD bonds by providing financial and development information reasonably required for due-diligence and disclosures relating to the issuance of the CFD bonds;
- b) To provide for any required continuing disclosures under applicable securities laws.