

## TABLE OF CONTENTS

---

### TABLE OF CONTENTS

#### 1.0 INTRODUCTION

1.1	Purpose of the EIR .....	1.0-1
1.2	Known Trustee and Responsible Agencies .....	1.0-1
1.3	Type of Document.....	1.0-3
1.4	Intended Use of the EIR.....	1.0-3
1.5	Organization and Scope .....	1.0-3
1.6	Environmental Review Process.....	1.0-5
1.7	Comments Received on the Notice of Preparation.....	1.0-6

#### 2.0 EXECUTIVE SUMMARY

2.1	Purpose and Scope of the Environmental Impact Report .....	2.0-1
2.2	Project Characteristics.....	2.0-1
2.3	Project Alternatives Summary.....	2.0-1
2.4	Areas of Controversy.....	2.0-2
2.5	Summary of Environmental Impacts .....	2.0-2

#### 3.0 PROJECT DESCRIPTION

3.1	Local and Regional Setting.....	3.0-1
3.2	Project Background.....	3.0-2
3.3	Proposed General Plan Update .....	3.0-8
3.4	Subsequent Activities and Development in the City .....	3.0-25
3.5	Other Planning Activities Related to the General Plan Update .....	3.0-25
3.6	Regulatory Requirements, Permits, and Approvals.....	3.0-26

#### 4.0 ASSUMPTIONS

4.1	Land Use .....	4.1-1
4.2	Agricultural Resources.....	4.2-1
4.3	Pop Housing Employment .....	4.3-1
4.4	Human Health Risk of Upset .....	4.4-1
4.5	Traffic .....	4.5-1
4.6	Air Quality .....	4.6-1
4.7	Noise .....	4.7-1
4.8	Geology and Soils .....	4.8-1
4.9	Hydrology and Water Quality.....	4.9-1
4.10	Biological Resources.....	4.10-1
4.11	Cultural Resources .....	4.11-1
4.12	Public Services and Utilities .....	4.12-1
4.13	Visual Resources and Aesthetics.....	4.13-1
4.14	Energy Use and Climate Change.....	4.14-1

## TABLE OF CONTENTS

---

### 5.0 CUMULATIVE IMPACTS

5.1	Introduction.....	5.0-1
5.2	Cumulative Impacts Analysis.....	5.0-3

### 6.0 ALTERNATIVES

6.1	Introduction.....	6.0-1
6.2	Alternatives Under Consideration.....	6.0-1
6.3	Alternative 1 – Existing General Plan Alternative.....	6.0-2
6.4	Alternative 2 – Expanded Urban Development Alternative .....	6.0-14
6.5	Alternative 3 – Increased Density Alternative .....	6.0-33
6.6	Environmentally Superior Alternative .....	6.0-44

### 7.0 LONG-TERM IMPLICATIONS

7.1	Growth-Inducing Impacts .....	7.0-1
7.2	Significant Irreversible Environmental Effects.....	7.0-3
7.3	Significant and Unavoidable Environmental Effects.....	7.0-3

### 8.0 REPORT PREPARERS

#### LIST OF APPENDICES (SEE ATTACHED DIGITAL COPY ON CD)

Appendix A	NOP and Comment Summary Report
Appendix B	Traffic Model Data
Appendix C	Air Quality
Appendix D	Noise Data
Appendix E	Biological Resource Data
Appendix F	Climate Change

#### LIST OF TABLES

Table 2.0-1	Summary of Impacts and Mitigation Measures.....	2.0-4
Table 4.0-1	Housing and Jobs Projected for 2030 and Planned for General Plan Build-Out ..	4.0-3
Table 4.0-2	Housing Growth Assumptions in Cities and Unincorporated Butte County (Not Including Chico) .....	4.0-6
Table 4.0-3	Population Growth Assumptions in Cities and Unincorporated Butte County (Not Including Chico) .....	4.0-6
Table 4.0-4	Large-Scale Development Projects.....	4.0-7
Table 4.1-1	Existing Land Uses .....	4.1-2
Table 4.2-1	Butte County Leading Farm Commodities, 2008 .....	4.2-1
Table 4.2-2	Soil Capability Classification .....	4.2-3
Table 4.2-3	Storie Index Rating System.....	4.2-3

---

## TABLE OF CONTENTS

---

Table 4.2-4	Farmland in Planning Area .....	4.2-7
Table 4.2-5	Acres of Interim Farmlands and Grazing Lands – Butte County (1988–2004) .....	4.2-9
Table 4.2-6	Acres of Important Farmlands and Grazing Lands – Butte County (2004–2008) ...	4.2-9
Table 4.3-1	City of Chico and Butte County Population Growth .....	4.3-1
Table 4.3-2	Housing Trends .....	4.3-2
Table 4.3-3	Chico Household Tenure .....	4.3-3
Table 4.3-4	Housing Vacancy Status.....	4.3-4
Table 4.3-5	Employment by Industry – Chico.....	4.3-4
Table 4.4-1	Known Hazardous Material Sites in the Planning Area Department of Toxic Substances Control.....	4.4-3
Table 4.4-2	Open LUST Sites in the Planning Area .....	4.4-5
Table 4.5-11	Intersection Level of Service – Proposed General Plan Update Year 2030 Conditions	
Table 4.5-2	HCM 2000 Signalized Intersection Criteria.....	4.5-15
Table 4.5-3	HCM 2000 Unsignalized Intersection Criteria.....	4.5-15
Table 4.5-4	Freeway Level of Service – Existing Conditions.....	4.5-16
Table 4.5-5	Roadway Level of Service – Existing Conditions.....	4.5-16
Table 4.5-6	Intersection Level of Service – Existing Conditions .....	4.5-21
Table 4.5-7	Historical Traffic Accident Data.....	4.5-22
Table 4.5-8	Workers' Commuting Patterns, 2000.....	4.5-28
Table 4.5-9	Freeway Level of Service – Proposed General Plan Update Year 2030 Conditions.....	4.5-46
Table 4.5-10	Roadway Level of Service – Proposed General Plan Update Year 2030 Conditions.....	4.5-47
Table 4.5-11	Intersection Level of Service – Proposed General Plan Update Year 2030 Conditions.....	4.5-52
Table 4.6-1	Federal and State Ambient Air Quality Standards .....	4.6-2
Table 4.6-2	Ambient Air Quality Monitoring Data for Chico (Manzanita Avenue) .....	4.6-2
Table 4.6-3	Federal and State Ambient Air Quality Attainment Status for Sacramento Valley Air Basin .....	4.6-5
Table 4.6-4	Toxic Air Emission by Land Use .....	4.6-7
Table 4.6-5	Recommendations on Siting New Sensitive Land Uses Near Air Pollutant Sources .....	4.6-12
Table 4.6-7	Criteria Pollutant and Precursor Emissions (2008 and 2030) (Pounds per Day) ....	4.6-29
Table 4.6-8	Construction-Related Criteria Pollutant and Precursor Emissions (2010 and 2030) (Pounds per Day) .....	4.6-30

## TABLE OF CONTENTS

---

Table 4.6-9	Compliance of General Plan Update with BCAQMD-Recommended Operation Emission Reduction Strategies.....	4.6-33
Table 4.6-10	Criteria Pollutant Emissions (2008 and Build-out) (Pounds per Day) .....	4.6-42
Table 4.7-1	Common Acoustical Descriptors .....	4.7-2
Table 4.7-2	Ambient Noise Levels.....	4.7-6
Table 4.7-4	Maximum Allowable Noise Levels from Transportation Noise Sources [General Plan Update Table N-1] .....	4.7-43
Table 4.7-5	Maximum Allowable Exterior Noise Levels from Non-Transportation Sources [General Plan Update Table N-2] .....	4.7-44
Table 4.7-6	Requirements for an Acoustical Analysis [General Plan Update Table N-3] .....	4.7-44
Table 4.7-7	Year 2030 Traffic Noise Levels Under Proposed General Plan Update Build-Out	4.7-47
Table 4.7-8	Predicted Changes in Traffic Noise Levels at Build-Out of the General Plan Update as Compared to Existing Conditions .....	4.7-50
Table 4.7-9	Typical Construction Equipment Noise .....	4.7-57
Table 4.7-3	Existing Traffic Noise Levels in the Planning Area .....	4.7-36
Table 4.8-1	Planning Area Soil Types by Acreage .....	4.8-2
Table 4.8-2	Effects of Richter Magnitude and Modified Mercalli Intensity .....	4.8-13
Table 4.9-1	Contaminated Plumes in Chico .....	4.9-12
Table 4.10-1	Acreage of Biological Communities Within the Planning Area .....	4.10-2
Table 4.10-2	Special-Status Plant Species Potentially Occurring Within the Planning Area...	4.10-20
Table 4.10-3	Special-Status Wildlife Species Potentially Occurring Within the Planning Area	4.10-25
Table 4.10-4	Biological Community Acres in the Proposed SOI Designated For Urban Uses	4.10-47
Table 4.12.1-1	Chico Fire Department 2008 Emergency Incidents .....	4.12-5
Table 4.12.1-2	Chico Fire Department Mutual Aid Responses .....	4.12-6
Table 4.12.2-1	Chico Police Department - Part I Crimes 2002 –2008 .....	4.12-16
Table 4.12.2-2	Chico Police Department Response Times 2006–2008 .....	4.12-16
Table 4.12.3-1	CUSD Schools.....	4.12-22
Table 4.12.3-2	Chico Unified School District Enrollment Trends .....	4.12-23
Table 4.12.3-3	Grade Level Enrollment Projections 2010 –11 Through 2019 – 20 .....	4.12-24
Table 4.12.3-4	Practical Capacity of CUSD Schools* .....	4.12-25
Table 4.12.3-5	Projected School Enrollment Versus Capacity* .....	4.12-25
Table 4.12.3-6	General Plan Update .....	4.12-32
Table 4.12.4-1	Chico District Service Connections and Water Sales .....	4.12-36
Table 4.12.4-2	Projected 2030 Service Connections and Water Deliveries for Scenario 2 .....	4.12-37

---

## TABLE OF CONTENTS

---

Table 4.12.4-3	Year 2030 Supply and Demand Comparison (in af) .....	4.12-38
Table 4.12.4-4	CUWCC Revised BMPs .....	4.12-43
Table 4.12.4-5	Types of Potential Environmental Impacts Associated with New Water Supply Facilities.....	4.12-54
Table 4.12.5-1	Collection System Pipelines.....	4.12-59
Table 4.12.5-2	Historical Wastewater Flow to the Chico WPCP .....	4.12-61
Table 4.12.5-3	Projected Wastewater Flows .....	4.12-62
Table 4.12.5-4	Projected Wastewater Flow at Build-Out of the Proposed General Plan Update .....	4.12-71
Table 4.12.5-5	Types of Potential Environmental Impacts Associated with New Wastewater Treatment and Supply Infrastructure.....	4.12-72
Table 4.12.6-1	Landfills Utilized for City of Chico Solid Waste in 20081 .....	4.12-75
Table 4.12.6-2	City of Chico Diversion Rates .....	4.12-78
Table 4.12.7-1	Electricity Consumption for PG&E's Service Area (in millions of kWh) 1996–2007 .....	4.12-84
Table 4.12.7-2	2007 Butte County Electricity Consumption .....	4.12-85
Table 4.12.7-3	Natural Gas Consumption for PG&E's Service Area (in millions of therms) 1996–2007 .....	4.12-85
Table 4.12.7-4	2007 Butte County Natural Gas Consumption .....	4.12-86
Table 4.12.8-1	Park, Recreation, and Open Space Facilities .....	4.12-91
Table 4.14-1	Greenhouse Gas Emissions (Metric Tons per Year) .....	4.14-28
Table 4.14-2	Compliance of Proposed General Plan Update with CAPCOA Model Policies for Greenhouse Gases in General Plans .....	4.14-31
Table 6.0-1	Vehicle Miles Traveled Comparison of Alternatives and Proposed General Plan Update .....	6.0-7
Table 6.0-2	Alternative 2.....	6.0-14
Table 6.0-3	Freeway Level of Service – Land Use Alternatives Year 2030 Conditions .....	6.0-21
Table 6.0-4	Roadway Level of Service – Land Use Alternatives Year 2035 Conditions .....	6.0-23
Table 6.0-5	Alternative 3.....	6.0-33
Table 6.0-8	Summary Comparison of Alternatives .....	6.0-45

## LIST OF FIGURES

Figure 3.0-1	Regional Location Map .....	3.0-3
Figure 3.0-2	2030 General Plan Planning Area.....	3.0-5
Figure 3.0-3	Proposed Land Use Diagram.....	3.0-13
Figure 3.0-4	Circulation Plan .....	3.0-15

## TABLE OF CONTENTS

---

Figure 3.0-5	Bicycle-Pedestrian System Map .....	3.0-17
Figure 3.0-6	Transit System .....	3.0-19
Figure 4.1-1	Proposed Butte County General Plan Update Land Uses in Chico Area.....	4.1-5
Figure 4.2-1	Important Farmlands .....	4.2-5
Figure 4.2-2	Williamson Act/Preserved Agricultural Lands .....	4.2-11
Figure 4.2-3	Farmland Impacts.....	4.2-21
Figure 4.5-1	Existing Roadway Network .....	4.5-3
Figure 4.5-2	Existing Traffic Volumes .....	4.5-13
Figure 4.5-3	Existing Bikeway Facilities.....	4.5-25
Figure 4.5-4	Existing Goods Movement and Aviation Facilities.....	4.5-29
Figure 4.7-1	Common Noise Levels .....	4.7-3
Figure 4.7-2	Existing Noise Measurement Surveys .....	4.7-9
Figure 4.7-3	Chico Municipal Airport CNEL Contours (Year 2008).....	4.7-15
Figure 4.7-4	Chico Municipal Airport Future CNEL Contours (Year 2018) .....	4.7-17
Figure 4.7-5	Chico Municipal Airport CNEL Noise Contours for Cal-Fire Average Day .....	4.7-19
Figure 4.7-6	Chico Municipal Airport CNEL Noise Contours for Cal-Fire Maximum Day .....	4.7-21
Figure 4.7-7	Enloe Medical Center CNEL Noise Contours: North Approach / South Departure .....	4.7-25
Figure 4.7-8	Enloe Medical Center CNEL Noise Contours: South Approach / North   Departure.....	4.7-27
Figure 4.7-9	Single-Event Noise Contours Enloe Medical Center .....	4.7-29
Figure 4.8-3	Known Faults .....	4.8-17
Figure 4.9-1	Groundwater Basins .....	4.9-7
Figure 4.9-2	100-Year Flood Plain .....	4.9-15
Figure 4.10-1	Biological Communities .....	4.10-5
Figure 4.10-2	Critical Habitat within and surrounding the Planning Area.....	4.10-17
Figure 4.10-3	BCM Habitat within and surrounding the Planning Area .....	4.10-45
Figure 4.11-1	Archaeological Sensitivity Map.....	4.11-7
Figure 4.12.1-1	Fire Station Service Areas .....	4.12-3
Figure 4.12.5-1	Chico Wastewater Collection and Treatment System.....	4.12-57
Figure 4.13-1	City Street and Development Patterns .....	4.13-2
Figure 4.13-2	City Commercial Center Development Patterns .....	4.13-2
Figure 4.13-3	Chico City Plaza .....	4.13-3
Figure 4.13-4	Five Mile Recreation Area .....	4.13-5

## **TABLE OF CONTENTS**

---

Figure 4.13-5 North Rim, Upper Bidwell Park.....	4.13-5
Figure 6.0-1 Alternative 1 .....	6.0-3
Figure 6.0-2 Alternative 2.....	6.0-15
Figure 6.0-3 Alternative 3.....	6.0-35

