

MAG REGIONAL TRANSPORTATION PLAN

Phase 1

Alternative Growth Concepts

Draft Task Report

*Mobility for the
New Millennium*



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MARICOPA
ASSOCIATION of
GOVERNMENTS

Regional Transportation Plan – Phase 1

ALTERNATIVE GROWTH CONCEPTS

Prepared for:



Prepared by:



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PREFACE

This document is one of a series of reports and documents that have been prepared for the MAG Regional Transportation Plan – Phase 1 project. There are five published documents that were produced as final products of specific tasks. These five documents form the basis of the **Summary Report**. The five task reports are:

**Status of Regional Transportation
Values, Goals and Objectives
Alternative Growth Concepts
Analysis of Alternative Growth Concepts
Transportation Planning Principles**

In addition to the above documents, several other products from RTP Phase 1 are available in the project files. These products provide documentation of the major steps taken in the project and provide input to the five documents listed above and the final report.

- **Issue Papers :**
 - Demographics and Social Change
 - New Economy
 - Environmental and Resource
 - Land Use and Urban Development
 - Transportation Modes and Technologies
- Five forums were held in February and March 2001 with presentations by nationally recognized experts in the five categories listed above under Issue Papers. **Videos** were made of most of the forums, and a presentation was prepared identifying the major themes of the forums.
- Sixteen focus group meetings were held in May and June 2001. The groups included various geographic, ethnic and agency orientations. A summary is provided in the **Focus Groups Results** task paper dated August 2001.
- Interviews were held with 21 resource and agency stakeholders throughout the metropolitan area. The findings from these interviews were documented in a task paper dated October 2001.
- The **Population Projections** task paper dated September 19, 2001, was prepared to provide the “horizon” projections to be used in the analyses for this RTP.
- A task paper entitled **Summary of Research and Transportation Model Adjustments for Vehicle Trip Reductions** dated March 27, 2002, was prepared to assist in determining potential traffic impacts of trip reduction actions.

1.0 BACKGROUND AND PURPOSE

The MAG Regional Transportation Plan (RTP) will replace the current Long Range Transportation Plan as the policy framework directing major transportation investments in the region with a time perspective extending over the next 50 years. To complete Phase I of the RTP, MAG has enlisted the assistance of URS with a Scope of Work that includes ten tasks.

This report summarizes work to date on Task 6, Development of Alternative Growth Concepts and Transportation Options, of the URS Scope of Work for the RTP. The majority of work completed on this task focuses on the development of the alternative growth scenarios, modeling of these scenarios, and analysis of the results. This work includes the following sub-tasks:

- 6A: Land Ownership Map
- 6B: Planning Horizon Population Level
- 6C: Define Base Concept
- 6D: Define Trend Concept
- 6E: Conduct Workshop No. 1
- 6F: Develop Transportation Options
- 6G: Conduct Workshop No. 2
- 6H: Identify New and Modified Legislation, Regulations and Policies Needed to Support Each Alternative Growth Concept

Steps 6A to 6E and 6H have been completed and are reviewed below. The results of Task 6 will be used for Task 7, Analysis of Growth Alternatives, of the Scope of Work. This task will focus on analyzing the alternative growth scenarios with respect to the RTP values, goals and objectives determined earlier in Task 5, Establishment of Regional Development and Transportation Values, Goals and Objectives.

2.0 INPUTS

Prior to initiating the alternative growth scenarios modeling process, a couple of activities were completed. First, the population and employment control totals to be used in the modeling process were determined. Second, interviews were held with regional stakeholders and MAG member Planning Directors to determine future development potential. These steps are reviewed in more detail below.

2.1 Population Control Total

Selection of a population control total was a critical step in the alternative growth scenarios modeling process of the MAG RTP. The population control total is the population that Maricopa County is expected to reach on a long-term basis, say over the next 40 to 60 years. As explained in more detail below, this figure was used for the alternative growth scenarios, with its geographic distribution changed between scenarios, but the total remaining the same.

To determine the MAG RTP population control total, a detailed analysis of historical population growth and current demographic trends in Maricopa County and other selected areas (Pima County, Arizona, United States) was completed. This analysis also included a review of population projections made by the Arizona Department of Economic Security (DES), as well as projections in other states with similar population characteristics (e.g., California, Florida, Texas). The full details of this analysis are contained in the *MAG RTP Population Projections Issue Paper*.

Three alternative population projections were made for Maricopa County. The basis of these projections was the most recent DES population projection for Maricopa County; adjustments were made to account for deviations between the DES 2000 forecast population and the Census 2000 population. These alternative projections, ranging from approximately 7,265,000 to 9,626,000, were averaged to establish

the MAG RTP population control total of 8.5 million that was used for each of the alternative growth scenarios.

In addition, alternative population forecasts were made for Pinal County. This analysis included three alternative projections based on the method used for Maricopa County, plus a fourth alternative using projections from the *Pinal County Transportation Plan 2000 Update*. These four Pinal County alternatives varied widely, from approximately 290,000 to 1,090,000, with an average of 573,000. An estimated 78 percent of this population, 447,000 persons, would live within a 45-minute drive-time of Maricopa County. Many of these Pinal County residents would be expected to regularly travel to Maricopa County for work, shopping, and other activities.

Yavapai County residents and employees are not expected to create significant travel demands in northwest Maricopa County for the foreseeable future. Therefore, the population of Yavapai County was not analyzed in detail.

2.2 Employment Control Total

As with the population control total, determination of an employment control total was a critical step in the alternative growth scenarios modeling process of the MAG RTP. The employment control total is the employment level that Maricopa County is expected to reach on a long-term basis, say over the next 40 to 60 years. Again, this figure was used for the development of alternative growth scenarios (as explained in more detail below), with its geographic distribution changed between scenarios, but the total remaining the same.

The ratio between population and employment was used to determine the MAG RTP employment control total. MAG's forecast of approximately 2.08 persons per job in Maricopa County around 2050 was used for this analysis. While this figure is somewhat higher than the current Maricopa County population/employment ratio of 1.996, the increase clearly reflects the national trend. The 2050 employment ratio also includes employment in Maricopa County that will be filled by residents from neighboring counties (e.g., Pinal County). Using this ratio, a MAG RTP employment control target of approximately 4.1 million was established and used for the alternative growth scenarios.

As noted above, because Yavapai County residents and employees are not expected to create significant travel demands in northwest Maricopa County for the foreseeable future, Yavapai County's population and employment were not analyzed in detail.

2.3 Regional Stakeholder and Planning Director Interviews

In order to better understand the constraints, as well as unique local situations on a sub-regional basis (e.g., effects of airports, military installations, special environmental considerations) and opportunities affecting future development in Maricopa County, interviews were held with regional stakeholders and MAG member jurisdiction Planning Directors and their staffs. The stakeholders consisted of entities that own, or influence control over, large amounts of land in Maricopa County, while the Planning Director interviews consisted of most of the 24 MAG members.

The following are regional stakeholders that were interviewed: Arizona Municipal Water Users Association; Arizona State Land Department; U.S. Bureau of Land Management; and U.S. Forest Service. The Planning Directors were divided into three groups. The first group was the Indian communities (Fort McDowell Yavapai Nation, Gila River Indian Community, Salt River Pima-Maricopa Indian Community). The second group included the larger, established municipalities (Glendale, Mesa, Phoenix, Scottsdale, Tempe). The third group included most of the smaller, rapidly growing municipalities (Apache Junction, Avondale, Buckeye, Chandler, Gilbert, Peoria, Surprise, Tolleson, Queen Creek).

The topics addressed in the regional stakeholder interviews included the following:

- General Plan update status
- Buildout population and employment projections
- New development in the pipeline
- Existing and future development corridors and activity centers
- Redevelopment areas
- Major development and preservation issues
- Other growth issues

A summary document with minutes of the meetings was submitted to MAG. The information from the interviews was key to the creation of the growth alternatives modeling discussed below.

3.0 MODELING

Modeling of the growth scenarios was a multi-step process. The first modeling step was definition of four alternative growth scenarios. Second, the updated general plans of MAG members were used to estimate the distribution of population and employment across Maricopa County at buildout. Third, these figures were adjusted geographically for each of the four growth scenarios. These steps are reviewed in more detail below.

3.1 Definition of Growth Scenarios

The first step of the modeling exercise was the definition of growth scenarios. The scenarios were designed to be different enough from each other to produce distinctive results, and to have a balance of realism and vision. In developing the growth scenarios, consideration was given to such issues as the following:

- Population and employment control totals
- Interview findings
- Jurisdictional boundaries
- Community visions and general plans
- Large land holdings (public and private)
- Existing/planned/potential land uses
- Existing/planned/potential transportation systems (including fixed guideway regional investments)
- Past and future planning and development trends
- Past and future revitalization and redevelopment opportunities
- Quality of life issues
- Open space/natural environment preservation
- Results of recent public opinion polls and surveys on urban growth, revitalization and preservation
- Input from MAG RTP Focus Groups and expert panel forums conducted in Spring 2001

With these issues in mind, four alternative growth scenarios for both population and employment were established. These are presented at the end of this memorandum in Table A-1: Characteristics of Alternative Growth Scenarios, and are described as follows:

- **Scenario 1, Base Case/General Plan Framework:** This scenario focuses on continued development and planning consistent with new, or soon to be adopted, general plan updates of local MAG member jurisdictions.
- **Scenario 2, Infill/Urban Revitalization Emphasis:** In this scenario, the general plans and development standards of MAG members would require significant revision. Such revisions would focus on increased densities when redevelopment occurs, especially along fixed-guideway transit

corridors; infill development on vacant or redevelopment lands to maximize use of existing infrastructure; and revitalization of existing neighborhoods and the stimulation of mixed use development in high density areas, as a part of any new infill or redevelopment project, or as part of urban activity center development. A more compact urban form would result, with 65 to 75 percent of future growth occurring within existing urbanized areas over the next 50 years, and the remainder occurring on the urban fringe.

- **Scenario 3, Activity Center Emphasis:** As in Scenario 2, the general plans and development standards would require revision under this scenario. Such revisions would be similar to Scenario 2; however, the plans would be revised to concentrate future growth and development not only in existing urbanized areas, but also in regionally identified activity centers and along major transportation corridors throughout the metropolitan area.
- **Scenario 4, Suburban Fringe Growth Emphasis:** This scenario would further extend growth and development patterns in the metropolitan areas outward with no encouragement for either infill development or urban revitalization, no encouragement for nodal activity center development, and an emphasis on attempting to achieve a job/housing balance only on a subregional basis. This scenario is the most lax in terms of a planning and development standard.

Scenario 1, Base Case/General Plan Framework, is essentially a continuation of historical and current development trends using the preliminary updated general plans of most MAG members. The remaining three scenarios build upon the first scenario, with each emphasizing an alternative development trend that would be a change from historical/current trends. For a complete description of Scenarios 2, 3 and 4, see Table A-1, Characteristics of Alternative Growth Scenarios.

To establish Scenario 1, Base Case/General Plan Framework, the land use categories in MAG's geographic information system (GIS) model were taken as given in the latest land use elements of the general plans. The modeling was done at two geographic levels. First, population modeling was done at the Regional Transportation Plan Zone (RTPZ) level, which has 31 zones in Maricopa County. The second, more detailed modeling was done for both population and employment at the Regional Analysis Zone (RAZ) level, with 146 RAZs in Maricopa County. Each RTPZ encompasses one or more RAZ. Modeling was first done at the RTPZ level, with a move to the RAZ level once major trends had been established.

To aid in modeling the alternative growth scenarios, MAG calculated a number of possible buildout population and employment options, as shown at the end of this memorandum in Table A-2: Population Allocation Options and Table A-3: Employment Allocation Options. In the case of population, the options range from No Additional Growth Beyond 2000 to 110% Maximum Density. Similarly, for employment, the options range from No Additional Growth Beyond 2000 to 110% Maximum Density. It is important to remember that these buildout options were used to vary the geographic distribution of the population and employment between the RTPZs and RAZs, but that the total population and employment levels were fixed at the control totals of 8.5 million and 4.1 million.

Within these tables, the base population that would eventually be reached if development continues as it has historically, and if the land use element develops as currently planned, is referred to as the Buildout Population Target. Likewise, the employment that would eventually be reached if development continues as it has historically, and if the land use element develops as currently planned, is referred to as the Buildout Employment Target.

3.2 Modeling Results

Detailed maps (options and densities) and tables for each of the modeling scenarios are shown in the following appendices attached to this memorandum:

- Appendix B: Scenario 1, Base Case/General Plan Framework
- Appendix C: Scenario 2, Infill/Urban Revitalization Emphasis
- Appendix D: Scenario 3, Activity Center Emphasis
- Appendix E: Scenario 4, Suburban Fringe Growth Emphasis

The Buildout Population Target and the Buildout Employment Target were the main options used in Scenario 1, the Base Case/General Plan Framework. The target figures are the estimated RAZ buildout population/employment, as agreed upon between MAG and municipal staff (based on preliminary updated General Plan Land Use Elements, as available) that generally assume mid-range density of any residential land use category. These targets are the main ones used in this scenario, since it is the baseline from which the other three scenarios vary. The population and employment options used for this scenario are shown, in Figure B-1: Scenario 1, Base Case/General Plan Framework – Population Allocation and Figure B-2: Scenario 1, Base Case/General Plan Framework – Employment Allocation.

In Scenario 2, Infill/Urban Revitalization Emphasis, the population and employment densities are changed significantly from Scenario 1. In this scenario, additional population and employment parameters are used to concentrate density in the County's already urbanized areas. Density is concentrated in areas where significant urban revitalization and infill development are planned or occurring; for example, along the planned Central Phoenix/East Valley Light Rail Transit (LRT) line, and along its logical fixed-guideway transit future extensions. Here the 90% and 110% Maximum Density population and the 110% employment categories are used because these are the densities that the region's core cities have been experiencing in major urban revitalization and infill projects that are complete or underway.

This is shown in Figure C-1: Growth Scenario 2, Infill/Urban Revitalization Emphasis – Population Allocation and Figure C-2: Growth Scenario 2, Infill/Urban Revitalization – Employment Allocation. This alternative is clearly the most compact or dense growth scenario for the metropolitan area, with between 65 and 75 percent of future growth occurring within the currently urbanized area, or on its immediate fringes.

In Scenario 3, Activity Center Emphasis, the population and employment densities are changed significantly from Scenario 1 and somewhat from Scenario 2. In this scenario, additional population and employment parameters are used, such as 90% Maximum Density, to concentrate density near existing and planned major transportation corridors and activity centers. Examples of these development forms include the following: the mixed use activity center at 24th Street and Camelback Road in Phoenix, and the linear mixed-use, high density transportation corridor (SR 101) that is developing between the Scottsdale Airpark activity center and the Desert Ridge Town Center. The results of this scenario are shown at the end of this memorandum in Figure D-1: Growth Scenario 3, Activity Center Emphasis – Population Allocation and Figure D-2: Growth Scenario 3, Activity Center Emphasis – Employment Allocation. This alternative is more compact than Scenario 1, although not as compact as Scenario 2.

Scenario 3 assumes that a set of regional activity centers will evolve over the next 50 years, each including significant employment, medium- and higher-density housing, public services and extensive retail, service and entertainment facilities. These activity centers would be active 16-24 hours per day, have internal multi-modal circulation systems, and be linked via regional high-capacity transit. Development surrounding these existing and future activity centers would include both suburban and traditional neighborhood patterns, with multi-modal access to the activity centers.

Finally, in Scenario 4, Suburban Fringe Emphasis, the population and employment densities are changed significantly from the other scenarios. In this scenario, additional population and employment were distributed to infill opportunities in existing suburban areas and beyond the fringes of the current urbanized areas. No new infill or revitalization/redevelopment was anticipated in the core of the urban area. At best this alternative growth scenario attempts to achieve a nominal jobs/housing balance on a subregional basis. The outcomes of this scenario are shown at the end of this memorandum in Figure E-1:

Growth Scenario 4, Suburban/Fringe Emphasis – Population Allocation, and Figure E-2: Growth Scenario 4, Suburban/Fringe Emphasis – Employment Allocation.

To facilitate the distribution of population and employment in the scenarios, a map categorizing the current development of the RAZs was created and is shown in Figure F-1: Classification of RTP Zones. A map of the major open space constraints that would limit development in the RAZs was also created and is shown in Figure F-2: Major Open Space Constraints. Similarly, Figure F-3: Large Land Ownership illustrates major landholdings in the region that could influence development patterns.

4.0 IMPLEMENTATION REQUIREMENTS

It is important to identify a set of implementation requirements to help determine the constraints/opportunities that may be expected from each of the growth scenarios. These requirements will help to determine the feasibility and desirability of each of the scenarios.

4.1 Evaluation Process

The implementation requirements represent the types of measures necessary to direct regional development patterns. A graphical rating system was applied to each growth scenario. The object of the ratings was to indicate the level of change required from current policies.

In addition to the assessment of implementation actions, the agencies or entities (public or private) principally responsible for implementation have been identified. Such responsibility could be either direct (reflective of an agency that must take action in order to carry out an action) or indirect (through the authorization of funding or political support for an implementation action). Local agencies include the cities and Maricopa County. Regional agencies include MAG, ADOT, Valley Metro (the Regional Public Transportation Authority), regional and local economic development corporations, employee training organizations, and other new or existing regional agencies such as a potential regional land use authority, joint powers agencies, and special taxing districts.

Scenarios 1 and 4 would be the easiest to implement. The main reason is that these two scenarios are the most consistent with existing and planned land use, current environmental priorities, and transportation planning programs and processes currently in place. It should be recognized, however, that under any of the scenarios, considerable additional funding for infrastructure to accommodate future growth and development would be required. As noted, the institutional issues associated with Scenarios 2 and 3 could present the greatest challenge, but also the most active approach to growth management.

4.2 Major Implementation Requirements

It is possible to identify several major implementation actions or efforts that will be necessary in order to realize each of the alternative growth scenarios. A review of these actions by requirement category is presented below for each scenario.

4.2.1 Scenario 1, Base Case/General Plan Framework.

This scenario would be the easiest to implement because it continues current planning and programming practices, with land use planning authority primarily concentrated at the local level. There are, however, several major requirements that would need to be addressed over time, including:

Land Use

- Maintains current trend of growth and development within MAG Region consistent with newly adopted General Plans.

- Balances new growth with expanded infill and current redevelopment efforts.
- Emphasizes maximum use and buildout of existing commercial and employment areas before building new facilities.
- Expansion into urban/suburban areas will require ongoing municipal annexation and trunk infrastructure extensions.

Environmental

- Maintains current commitments to archaeological and historical preservation.
- Balance of greenfield (raw land) to brownfield (formerly utilized site) development tilts toward new suburban greenfield sites.
- Current desert preservation/habitat preservation efforts continued, but no major new initiatives.
- Continues current efforts to address air quality and noise mitigation, through a broad range of cost-effective control measures.

Transportation

- Balances the need to maintain/enhance existing regional streets and highways with the need to build new ones.
- Balances the need to maintain/enhance high-capacity public transportation with the need to build new system components.
- Increases regional commitment to expand Intelligent Transportation Systems (ITS) and Transportation Management Associations (TMA) to maximize existing system capacities.
- Assumes completion of Central Phoenix/East Valley LRT corridor, with extensions phased over the long term.

Economic

- Must address fiscal impacts of continued suburban fringe development on public facilities and services.
- Continues regional commitment to affordable housing development.
- Emphasizes need to identify and secure resources for transportation system (roadways and transit) enhancement and expansion.
- Maintains current competition between municipalities for economic development to maximize sales tax revenue.

Political

- No significant development control policies beyond current planning and development activities, with emphasis on regional planning coordination.
- Does not commit to establishing a single Regional Vision and preferred urban form scenario, but relies on recently adopted General Plan updates from each municipality and Maricopa County to guide local growth.

- Suggests slightly more emphasis on infill development, redevelopment and transit-oriented design and development to capitalize on upcoming Central Phoenix/East Valley LRT investment.
- Addresses regional planning to level required by Growing Smarter Plus (e.g., jobs/housing balance, coordination of land uses, and resolution of conflicts between adjacent municipalities).

4.2.2 Scenario 2, Infill/Urban Revitalization Emphasis.

This scenario is probably the most difficult to implement over time. Due to the large amount of vacant, developable land on the periphery of the urban area, stringent growth controls that would limit expansion of the urbanized area and significant financial incentives to encourage infill development would be required. Such measures could significantly change the economic competitiveness of the region. Major requirements that will present a challenge to the MAG Region associated with this scenario include the following:

Land Use

- Refocuses growth and development to emphasize infill development in areas already served by a high level of urban public infrastructure, including a wide range of transportation options.
- Emphasizes an enhanced commitment to urban revitalization in existing residential and commercial areas within the core communities of the region.
- Utilizes new redevelopment areas to convert brownfield sites and other underutilized properties to productive use.
- Utilizes higher land use densities in urban revitalization and redevelopment, particularly parallel to major transportation corridors and within one-half to one-fourth mile of all high-capacity transit stations (transit-oriented development).
- Utilizes comprehensive growth management policies to restrict peripheral development.

Environmental

- Entails maximum efforts to promote desert preservation, as well as natural habitat preservation. This scenario could also include permanent agricultural preserves.
- Incorporates the preservation of archaeological and historical sites as key elements of cultural heritage in any revitalization/redevelopment efforts.
- Emphasizes the conversion of brownfield and other underutilized sites for mixed use urban development prior to urban fringe growth.
- Places only 25 to 35 percent of the 50-year projected growth on the suburban fringe due to infill and urban revitalization efforts, as well as enhanced densities and the use of mixed-use development strategies.

Transportation

- Requires significant investment in alternatives modes to the single occupant vehicle (SOV) to provide urban mobility and multi-modal choice under conditions of higher density development.

- Assumes development of multiple extensions of the Central Phoenix/East Valley LRT corridor throughout the region.
- Assumes complementary development of bus rapid transit (BRT) in HOV corridors on the loop freeway system accessing regional activity centers, as well as in a radial pattern to the urban core.
- Includes much stronger emphasis on additional alternative modes (e.g. shuttle circulators, bicycles, pedestrian circulation, neighborhood electric vehicles) to serve intrazonal trips within the urban core, expanding activity centers and existing master-planned communities.
- Also includes complementary strategies to encourage mixed-use activity center and core development, such as reduced parking requirements and reduction of free parking to limit auto access and encourage multi-modal access, and the establishment of TMAs to reduce auto-dependent trips, spread peak travel times and better manage transportation investments.

Economic

- Incorporates incentives to attract and retain businesses in the urban core, along major regional transportation corridors and within existing activity centers.
- Incorporates incentives to accommodate affordable housing throughout the region, particularly near major employment centers and high-capacity public transportation.
- Requires ongoing commitment to fund the maintenance, enhancement/expansion and new development of educational facilities within the existing urban area.
- Requires ongoing commitment to fund the maintenance, enhancement/expansion and new development of public facilities and services within the existing urban area.

Political

- Assumes a regional consensus could be reached on emphasizing compact growth and urban revitalization, limited suburban growth and maximizing desert and open space preservation. This would probably include the establishment of urban growth boundaries.
- Requires significant revision to general plans, zoning ordinances and development regulations to focus on infill development, urban revitalization, higher densities and mixed uses in activity centers, and limited suburban growth contiguous with the existing urban area.
- Emphasizes expenditures on non-auto transportation modes and the maximization of travel reduction and management strategies (e.g. telecommuting, active TMAs).
- Requires incentives to encourage urban revitalization/redevelopment, transit-oriented design and development projects, and mixed-use development within activity centers.

4.2.3 Scenario 3, Activity Center Emphasis.

This scenario will also be challenging to implement, although not to the same degree as Scenario 2. General Plans and other current processes associated with the provision of urban services will need to be revised to some degree in order to achieve activity-centered development and linear development along major transportation corridors. Major requirements associated with this scenario include the following:

Land Use

- Refocuses growth and development into a series of regional activity centers located on major transportation corridors.
- Utilizes these regional activity centers as the foci of sub-regional areas, with an emphasis on higher-density, mixed-use development at the core of each activity center.
- Assumes a balance of infill development and urban revitalization, with new development focused around each regional activity center to accommodate the 50-year projected growth.
- Includes the opportunity to develop subregional facility service centers that are an integral part of the activity centers and reduce the need for long-distance trips to the urban core to access services.

Environmental

- Focuses potential desert preservation, natural habitat preservation and agricultural preserves in areas between activity centers.
- Maintains similar focus on archaeological and historical preservation as Scenario 2.
- Addresses environmental quality issues such as air quality and noise through the development of multi-modal transportation systems geared to the unique characteristics of each activity, and through the creation of high-capacity public transportation linkages between activity centers and with the urban core.
- Encourages a regional open space/trails system linking the mixed use activity centers that could be utilized for both recreation and commuting.

Transportation

- Balances the need to maintain/enhance regional streets and highways with the need to expand them.
- Requires significant expansion of multi-modal public transportation systems that provide high commute capacity, link activity centers on the periphery, and provide connections with the urban core.
- Allows the development of multi-modal transportation systems (e.g. shuttle circulators, bicycles, pedestrian circulation, neighborhood electric vehicles) focused on the activity centers (as in Scenario 2), to serve trips within activity centers and to the surrounding areas and master-planned communities.
- Like Scenario 2, includes complementary strategies to encourage mixed-use activity centers and core development, such as reduced parking requirements and the establishment of TMAs to reduce auto-dependent trips, spread peak travel times and better manage transportation investments.

Economic

- Could require a regional sales tax sharing program to equalize impacts of economic development for communities that would not share in the proceeds from focusing new development around a limited number of locations, in accordance with an adopted regional activity center vision for growth and development.
- Like Scenario 2, incorporates incentives to accommodate affordable housing throughout the region, particularly near major employment centers and high-capacity public transportation.

- Like Scenario 2, requires ongoing commitment to fund the maintenance, enhancement/expansion and new development of educational facilities focused on activity centers and adjacent master-planned communities.
- Like Scenario 2, requires ongoing commitment to fund the maintenance, enhancement/expansion and new development of public facilities and services focused on activity centers and adjacent master-planned communities.

Political

- Assumes that a regional consensus could be reached on emphasizing a polycentric (activity center-based) approach to regional growth and development.
- Like Scenario 2, requires extensive revision to general plans, zoning ordinances and development regulations to focus on an activity center-based approach to regional growth and development.
- Like Scenario 2, emphasizes development of a substantial multi-modal transit system both within and between activity centers.
- Requires the provision of incentives to encourage mixed use activity center development, transit-oriented design, and development projects.

4.2.4 Scenario 4, Suburban Fringe Growth Emphasis.

While this scenario is somewhat similar to Scenario 1 – Base Case, its implementation could significantly increase the costs of providing urban services to the fringe areas. Major requirements that will need to be addressed by this scenario include the following:

Land Use

- Maintains and enhances the current trend of growth and development within the MAG Region on the urban/suburban and suburban/rural fringe areas.
- Places little emphasis (less than current trend) on infill development and urban revitalization/redevelopment, which could result in areas of urban disinvestment, as well as a leapfrog development pattern.
- Reflects an overall lower-density development pattern, with increases around commercial and employment centers located only at arterial roadway intersections or freeway interchanges.
- Potentially attempts to balance jobs/housing on a subregional basis to contribute to trip reduction and limit long-distance commutes.

Environmental

- Includes little or no emphasis on desert preservation or natural habitat preservation.
- Emphasizes greenfield development and suburban/rural land utilization over infill development, urban revitalization and managed fringe growth.
- Continues current efforts to address regional air quality and noise mitigation, through a broad range of cost-effective control measures.

Transportation

- Places major emphasis on expansion of the current regional street and highway system to serve new growth and development on the fringe.
- Emphasizes flexible public transportation system focused on express bus/HOV and bus rapid transit (BRT) technologies utilizing an expanded freeway system.

- Requires commitment to provide continuing maintenance on an expanded transportation system to serve low density development pattern.
- Increases regional commitment to expand ITS and TMA systems to maximize existing system capacities.

Economic

- Like Scenario 1, must address fiscal impacts of continued suburban fringe development on public facilities and services.
- Like Scenario 1, emphasizes need to identify and secure right-of-way for transportation system expansion.
- Like Scenario I, emphasizes need to identify and secure resources for transportation system (roadways and transit) enhancement and expansion.
- Maintains current competition between municipalities for economic development to maximize sales tax revenue.

Political

- Like Scenario 1, requires no major commitment beyond current planning and development activities.
- Like Scenario 1, does not commit to establishing a Regional Vision and preferred urban form scenario, but relies on recently adopted General Plan updates to guide local growth.
- Addresses regional planning only to the level required by Growing Smarter Plus (e.g., jobs, housing balance, coordination of land uses and resolution of conflicts between adjacent municipalities).
- Requires strong incentives for implementation of trip reduction strategies (e.g., telecommuting) due to commute distances required of dispersed urban development pattern.

4.3 Summary of Major Implementation Requirements

Figure 1 provides a more detailed summary of the key actions required to effectively realize each of the four alternative growth scenarios. The figure identifies the level of change required from current policies, procedures and development trends to achieve a particular growth scenario, and the Responsible Authority/Participant to initiate and carry out an implementation action. The following key illustrates the graphical rating system utilized in Figure 1.

- | | |
|-------------------------------------|--------------------------------------|
| <input type="checkbox"/> | No Change from Current Condition |
| <input checked="" type="checkbox"/> | Modest Change from Current Condition |
| <input checked="" type="checkbox"/> | Major Change from Current Condition |

The results of the ratings presented in Figure 1 are summarized below by ranking the growth scenarios from most complex to implement (most change from current conditions), to least complex to implement (least change from current conditions).

Growth Scenario	Degree of Change from Current Situation	Summary Comment
Infill/Urban Revitalization Emphasis	Radical	Most Complex to Implement
Activity Center Emphasis	Substantial	Somewhat Complex to Implement
Base Case/General Plan Framework	Modest	Somewhat Complex to Implement
Suburban Fringe Growth Emphasis	Minimal	Least Complex to Implement

Figure 1 also includes a background highlight to identify the actions most critical to achieving a particular growth scenario. As expected, growth scenarios which represent the most radical change from existing conditions have more critical actions required than those which are similar to current conditions.

A review of the scoring clearly indicates that either the Activity Center Emphasis or Infill/Urban Revitalization Emphasis would require a significant redirection of planning policy and a higher level of government intervention. These alternative growth scenarios, along with the description of implementation actions required to achieve them and the ranking of the complexity of various actions, have been prepared to illustrate four distinctly different growth patterns that could be pursued within the MAG region over the next 50 years. A commitment to alter the current course of regional growth and development to achieve one of the more directed, compact scenarios (Infill/Urban Revitalization Emphasis, Activity Center Emphasis) would clearly be a long-term proposition, and require a dedicated commitment by community leaders, elected officials and the general public to achieve the outcomes detailed above. Many of the implementation actions outlined, such as the establishment of regional tax sharing (carried out in the Minneapolis/Saint Paul, MN Metropolitan Area) or the establishment of growth management boundaries (carried out in the State of Oregon), have taken 20 years or longer to mature and result in the desired modifications of urban form.

In subsequent stages of this regional transportation planning process, the alternative growth scenarios will become the basis for evaluating alternative multi-modal transportation options to serve the region over the next 50 years, and for the formulation of regional mobility strategies and transportation implementation policies to support the staged development of such a system. The planning challenge is to combine the best characteristics of the multiple scenarios with a coordinated regional transportation framework that can serve as the basis for establishing a consensus on a long-term vision for the growth of the MAG region. The alternative growth scenarios, implementation actions, and scoring of these actions presented in this report will hopefully serve as tools for this urban form refinement process, attendant regional transportation planning and the ultimate establishment of a consensus on the future of the region.

Figure 1: Implementation Requirements

Implementation Action	Alternative Growth Scenario Rating ⁽¹⁾				Responsible Authority/Participant
	Scenario 1 Base Case/General Plan Framework	Scenario 2 Infill/Urban Revitalization Emphasis	Scenario 3 Activity Center Emphasis	Scenario 4 Suburban Fringe Growth Emphasis	
Land Use	Federal	State	Regional	Local	Private Sector
1 Strengthen Regional Land Use Planning					X
2 Update/Revise General Plans (including potential for more density categories)					X
3 Update/Revise Zoning Ordinances (including provisions for mixed use development)					X
4 Revise Development Standards					X
5 Infill of Vacant Land or Underutilized Properties					X
6 Develop New Employment Centers					X
7 Expand/Redevelop Existing Employment Centers					X
8 Develop New Commercial Service Areas					X
9 Expand/Redevelop Existing Commercial Service Areas					X
10 Encourage Development Around New and Existing Transit Centers					X
11 Concentrate Growth in a Series of Mixed Use Activity Centers					X
12 Concentrate Growth In Urban/Suburban Fringe Areas					X
13 Concentrate Growth in Suburban/Rural Fringe Areas					X
14 Preserve Rural Areas					X
15 Enhanced Emphasis on Maintaining/Upgrading Existing Public and Recreational Facilities					X
16 Enhanced Development of Subregional Public Facility Service Centers and Recreational Areas					X
Environmental					
17 Brownfield Site Restoration to Accommodate New Development					X
18 Emphasis on Greenfield Site Development					X
19 Establish Agricultural Preserves					X
20 Establish Regional Desert Preserve/Trail System and Habitat Preservation Areas					X
21 Provide Flood Prone Area Mitigation/Wetland Preservation					X
22 Emphasis on Archaeological and Historical Preservation					X
23 Increase Noise Abatement					X
24 Implement Additional Air Quality Control Measures					X

Figure 1: Implementation Requirements

Implementation Action	Alternative Growth Scenario Rating ⁽¹⁾				Responsible Authority/Participant				
	Scenario 1 Base Case/General Plan Framework	Scenario 2 Infill/Urban Revitalization Emphasis	Scenario 3 Activity Center Emphasis	Scenario 4 Suburban Fringe Growth Emphasis	Federal	State	Regional	Local	Private Sector
Transportation									
25 Enhance/Maintain Existing Regional Streets and Highways	█	█	█	█	█	█	█	█	█
26 Develop New Regional Streets and Highways	█	█	█	█	█	█	█	█	█
27 Expand HOV Facilities and Construct HOV Connector Facilities	█	█	█	█	█	█	█	█	█
28 Enhance/Maintain High Capacity Public Transportation Systems	█	█	█	█	█	█	█	█	█
29 Develop new High Capacity Public Transportation System Components	█	█	█	█	█	█	█	█	█
30 Increase Park and Ride Facilities	█	█	█	█	█	█	█	█	█
31 Develop Regional Commuter Passenger Rail Services	█	█	█	█	█	█	█	█	█
32 Expand Social Service Transportation Services	█	█	█	█	█	█	█	█	█
33 Expanded Pedestrian Circulation Facilities	█	█	█	█	█	█	█	█	█
34 Expanded Bikeway Circulation Facilities	█	█	█	█	█	█	█	█	█
35 Develop Alternative Mode Pathways for Electric Vehicles	█	█	█	█	█	█	█	█	█
36 Expand ITS Implementation	█	█	█	█	█	█	█	█	█
37 Form TMAs for Existing and New Employment Centers	█	█	█	█	█	█	█	█	█
38 Restrict Parking In Urban Centers	█	█	█	█	█	█	█	█	█
39 Construct New Parking Facilities	█	█	█	█	█	█	█	█	█
40 Establish a Regional Goods Distribution Port/Satellite Truck Distribution Centers	█	█	█	█	█	█	█	█	█
41 Reduce Reliance on the Single Occupant Vehicle	█	█	█	█	█	█	█	█	█
42 Enhance/Maintain Existing Airport Facilities	█	█	█	█	█	█	█	█	█
43 Develop New Regional Airport Facilities	█	█	█	█	█	█	█	█	█
44 Strengthen Regional Transportation Planning, and Coordinate with Land Use Planning	█	█	█	█	█	█	█	█	█

Figure 1: Implementation Requirements

Figure 1: Implementation Requirements

Implementation Action	Base Case/General Plan Framework	Alternative Growth Scenario Rating ⁽¹⁾				Responsible Authority/Participant
		Scenario 1	Scenario 2	Scenario 3	Scenario 4	
		Federal	State	Regional	Local	Private Sector
Economic						
45	Address Fiscal Impacts of New Development on Municipal Services	████	████	████	████	X X X X
46	Establish Regional Tax Sharing Program to Equalize Impacts of Economic Development	□	□	□	□	X X X
47	Provide Business Incentives to Locate in Urban Centers	□	████	████	████	X X X
48	Provide Affordable Housing Incentives	████	████	████	████	X X X
49	Secure Resources and Fund Public Facility and Services Maintenance/Modernization ⁽²⁾	████	████	████	████	X X X X
50	Secure Resources and Fund Expanded Public Facility and Service Development ⁽²⁾	████	████	████	████	X X X X
51	Secure Resources and Fund Enhanced School Facility Maintenance/Modernization	████	████	████	████	X X X X
52	Secure Resources and Fund School System Development	████	████	████	████	X X X X
53	Secure Resources and Fund Regional Streets and Highway Expansion	████	████	████	████	X X X X
54	Secure Resources and Fund Public Transportation System Expansion	████	████	████	████	X X X X
55	Reserve/Purchase Required ROW for New Transportation Facilities	████	████	████	████	X X X X
56	Implement Funding for "Transportation For Livable Communities" Purposes	████	████	████	████	X X X X

Figure 1: Implementation Requirements

Implementation Action	Alternative Growth Scenario Rating ⁽¹⁾					Responsible Authority/Participant
	Scenario 1 Base Case/General Plan Framework	Scenario 2 Infill/Urban Revitalization Emphasis	Scenario 3 Activity Center Emphasis	Scenario 4 Suburban Fringe Growth Emphasis		
Political						
57 Establish a Regional Consensus on Urban Form and Commit to Implementation	■				X	X
58 Strongly Coordinate Land Use Planning in the Region	■				X	X
59 Resolve Regional Land Use Conflicts	■				X	X
60 Commit to a Jobs/Housing Balance on Subregional Basis Throughout the Region	■	■	■		X	X
61 Commit to Redevelopment/Revitalization to Maintain Urban Quality of Life	■	■	■		X	X
62 Provide Infill Development Incentives	■	■	■		X	X
63 Provide Incentives to Encourage Transit Oriented Design and Development (TODD) Projects	■				X	X
64 Commitment to Building a Multi-Modal Regional Transportation System, and Expand Mode Choice	■	■			X	X
65 Provide Significant Incentives for Telecommuting	■		■		X	X
66 Commitment to Enhanced Regional Air Quality Measures	■	■	■		X	X

Notes:

Key to Table Rating:
 (1) □ No Change from Current Condition
 ▲ Modest Change from Current Condition

- (2) Includes water, wastewater, police, fire protection and library.
 Yellow Implementation Actions are those considered crucial to achieving Growth Scenario.

APPENDIX A: MODELING OPTIONS

Table A-1: Description of Alternative Growth Scenarios

Table A-2: Population Allocation Options

Table A-3: Employment Allocation Options

Table A-1: Characteristics of Alternative Growth Scenarios

Growth Scenario	Characteristics
1. Base Case/General Plan Framework	<ul style="list-style-type: none">• Compilation of recently updated general plans framework:<ul style="list-style-type: none">- Generalized land use pattern- Location of activity centers- Type of activity centers- Direction of growth- Rate of growth• Buildout of existing activity centers• Population/employment holding capacity• Adjacency relationships
2. Infill/Urban Revitalization Emphasis	<ul style="list-style-type: none">• Includes all Base Case characteristics• Compilation of revitalization/redevelopment policies/programs• Maximize development along high capacity transit corridors (other major transportation investments)• Infill development capacity/land use type• Public policy and incentives intense
3. Activity Center Emphasis	<ul style="list-style-type: none">• Includes all Base Case characteristics• Hierarchy of activity centers:<ul style="list-style-type: none">- Existing downtowns (e.g., Phoenix, Tempe, Scottsdale, Glendale)- Super sub-regional centers (e.g., Scottsdale Airpark/Core North/Paradise Ridge Mall/Desert Ridge Marketplace)- Regional activity centers (e.g., Chandler Boulevard High-Tech Corridor, Arrowhead Town Center, Williams Gateway Airport)- Sub-regional centers (e.g., 24th Street/Camelback, Glendale Airport Area)• Potential to link activity centers (transportation and high density land use) taking on intensified corridor characteristics
4. Suburban Fringe Growth Emphasis	<ul style="list-style-type: none">• Includes all Base Case characteristics• Generally characterized by low density suburban and semi rural growth.• Minimum/no incentives to urbanized area infill/redevelopment• Potential to emphasize subregional jobs/housing balance• Potentially most impact on adjacent Pinal County growth

Table A-2: Population Allocation Options	
Category	Description
Population 2000	Population of the RAZ in 2000 according to the U.S. Census Bureau.
Buildout Population 10 Percent	The population of the RAZ at 10 percent of the estimated residential buildout population. One of the population category options.
Buildout Population 30 Percent	The population of the RAZ at 30 percent of the estimated residential buildout population. One of the population category options.
Buildout Population Target	The estimated RAZ residential buildout population, as agreed upon between MAG and municipal staff (based on preliminary updated General Plan Land Use Elements, as available) that generally assumes mid-range density of any residential land use category. One of the population category options.
Buildout Population 90 Percent Maximum	Buildout to 90% of the residential category (e.g., 4-8 dwelling units per acre equates to 7.2 units per acre). One of the population category options.
Buildout Population 110 Percent Maximum	Buildout to 110% of the residential category (e.g., 4-8 dwelling units per acre equates to 8.8 units per acre). One of the population category options.

Table A-3: Employment Allocation Options	
Category	Description
Employment 2000	Employment of the RAZ in 2000 according to MAG.
Buildout Employment 10 Percent	The employment of the RAZ at 10 percent of the estimated non-residential buildout employment. One of the employment category options.
Buildout Employment 30 Percent	The employment of the RAZ at 30 percent of the estimated non-residential buildout employment. One of the employment category options.
Buildout Employment Target	The estimated RAZ non-residential buildout employment (calculated by MAG based on preliminary updated General Plan Land Use Elements). One of the employment category options.
Buildout Employment 110 Percent Maximum	Buildout to 110% of the non-residential employment category (e.g., general office, business park, light industrial). One of the employment category options.

APPENDIX B: GROWTH SCENARIO 1, BASE CASE/GENERAL PLAN FRAMEWORK

Figure B-1: Growth Scenario 1, Base Case/General Plan Framework – Population Allocation

Figure B-2: Growth Scenario 1, Base Case/General Plan Framework – Employment Allocation

Figure B-3: Growth Scenario 1, Base Case/General Plan Framework – Population Density

Figure B-4: Growth Scenario 1, Base Case/General Plan Framework – Employment Density

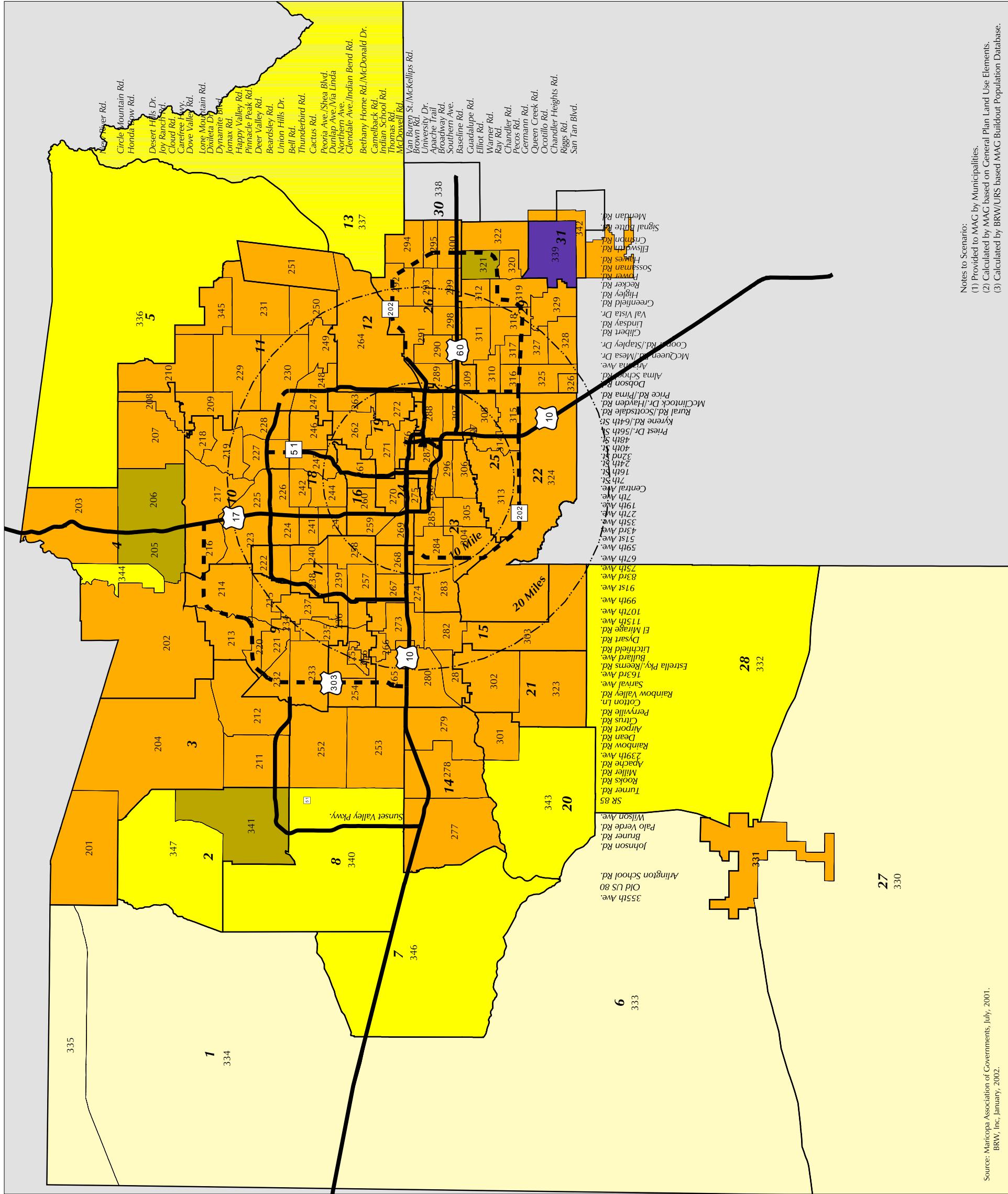
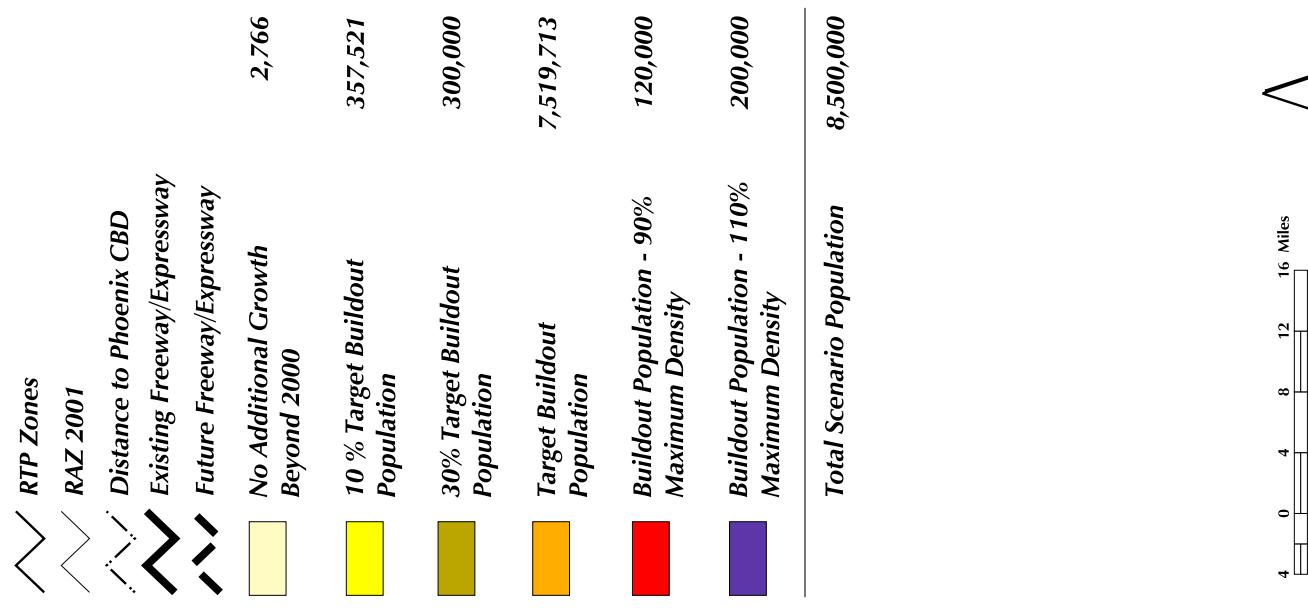
Table B-1: Growth Scenario 1, Base Case/General Plan Framework – Population

Table B-2: Growth Scenario 1, Base Case/General Plan Framework – Employment

MAG REGIONAL TRANSPORTATION PLAN

Figure B-1

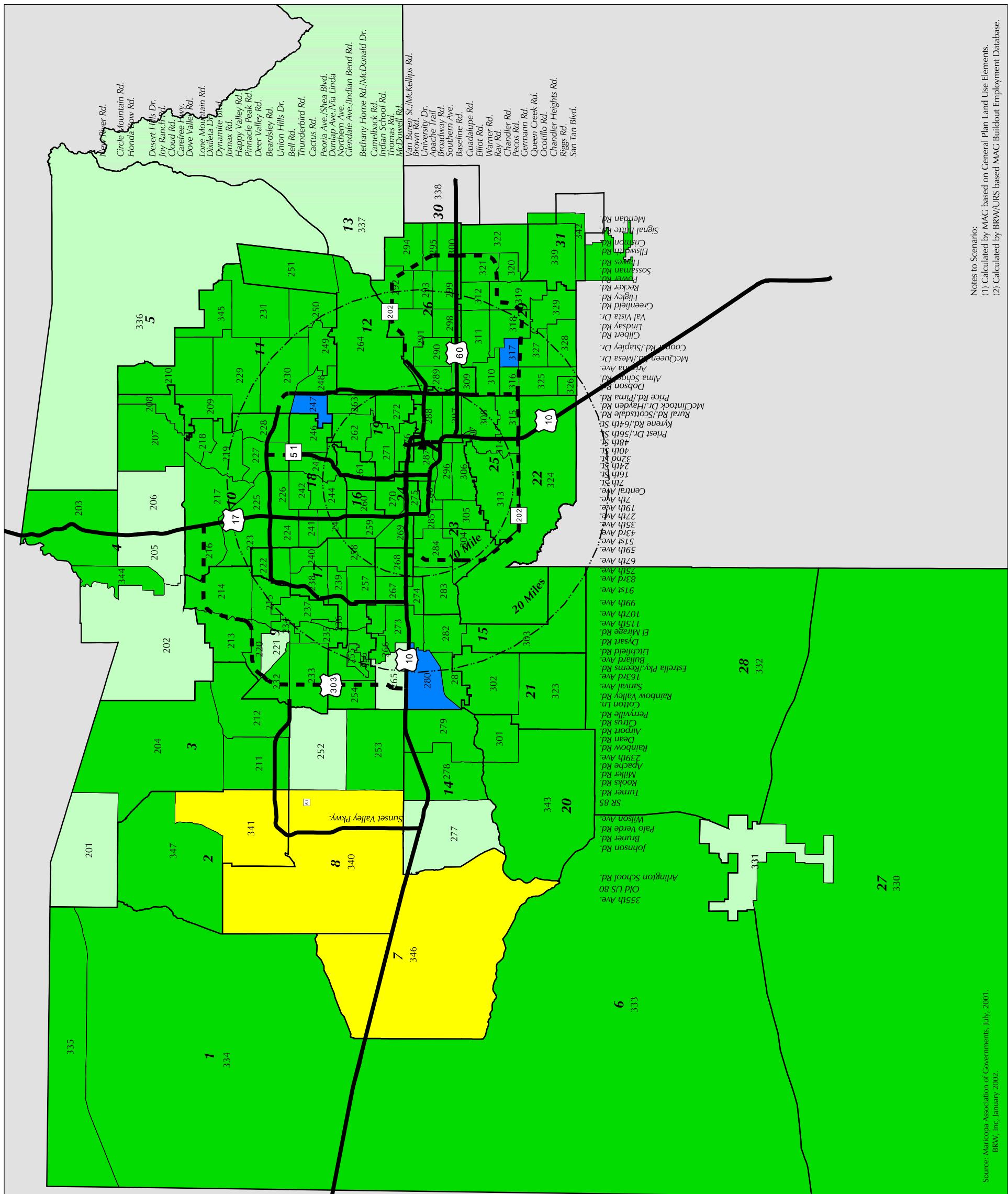
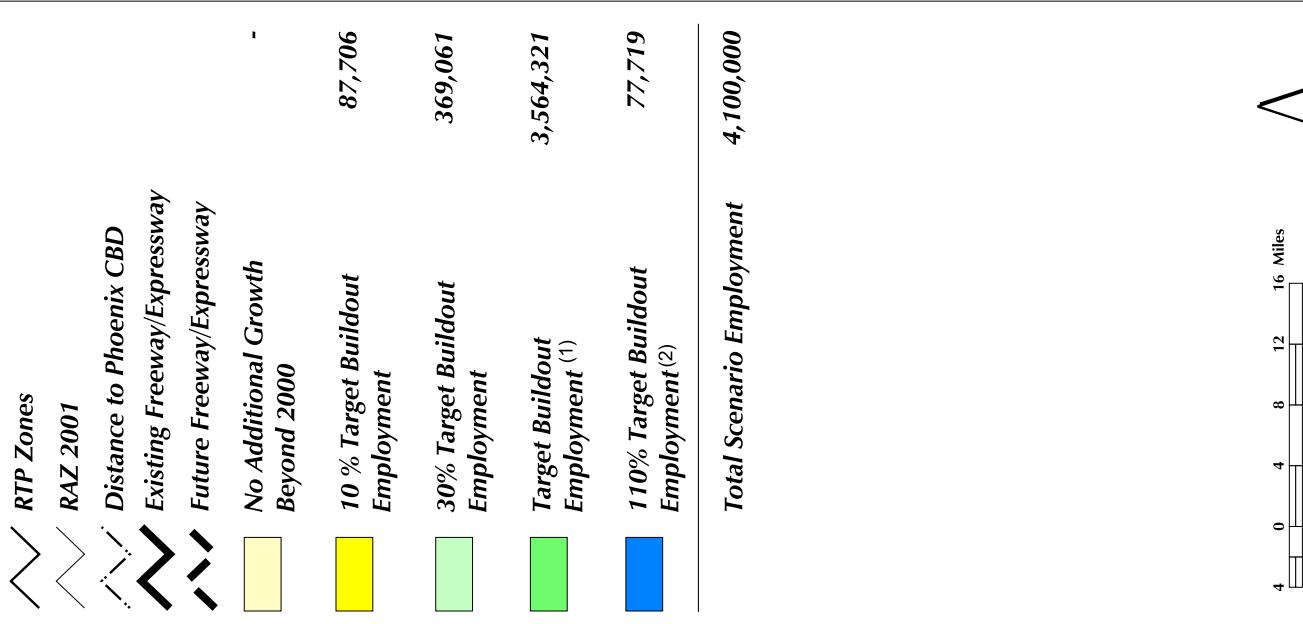
Growth Scenario 1, Base Case/General Plan Framework- Population Allocation



MAG REGIONAL TRANSPORTATION PLAN

Figure B-2

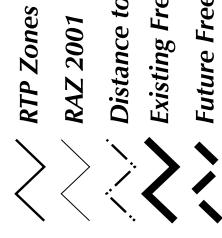
**Growth Scenario 1,
Base Case/General Plan Framework-
Employment Allocation**



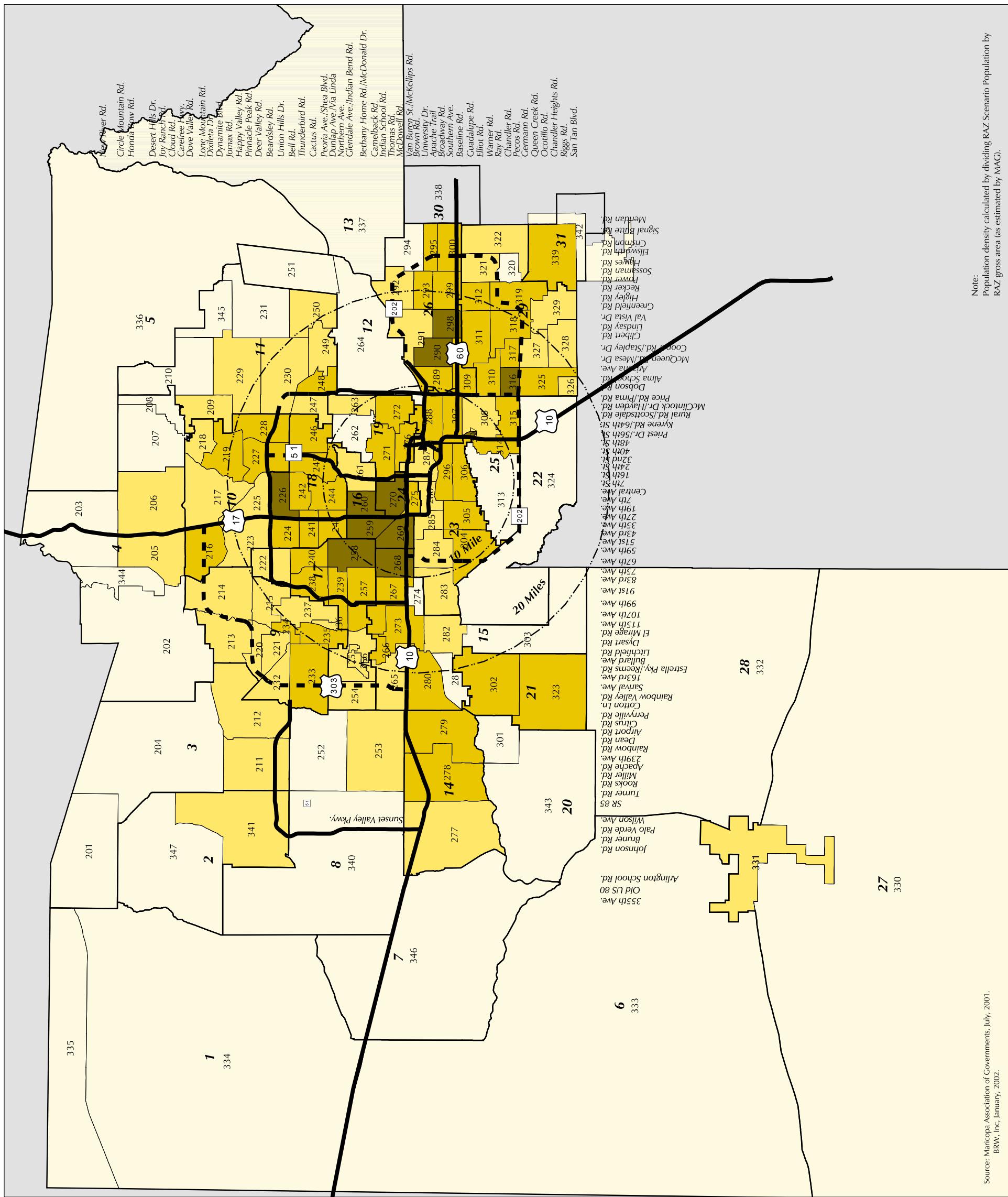
MAG REGIONAL TRANSPORTATION PLAN

Figure B-3

Growth Scenario 1, Base Case/General Plan Framework Population Density



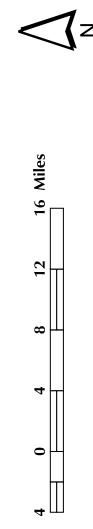
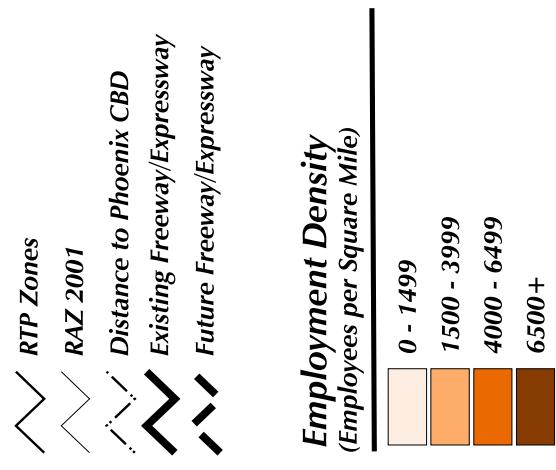
Note:
Population density calculated by dividing RAZ Scenario Population by
RAZ gross area as estimated by MAG.



MAG REGIONAL TRANSPORTATION PLAN

Figure B-4

**Growth Scenario 1,
Base Case/General Plan Framework-
Employment Density**



URS

Note: Employment density calculated by dividing RAZ Scenario Employment by RAZ gross area (as estimated by MAC).

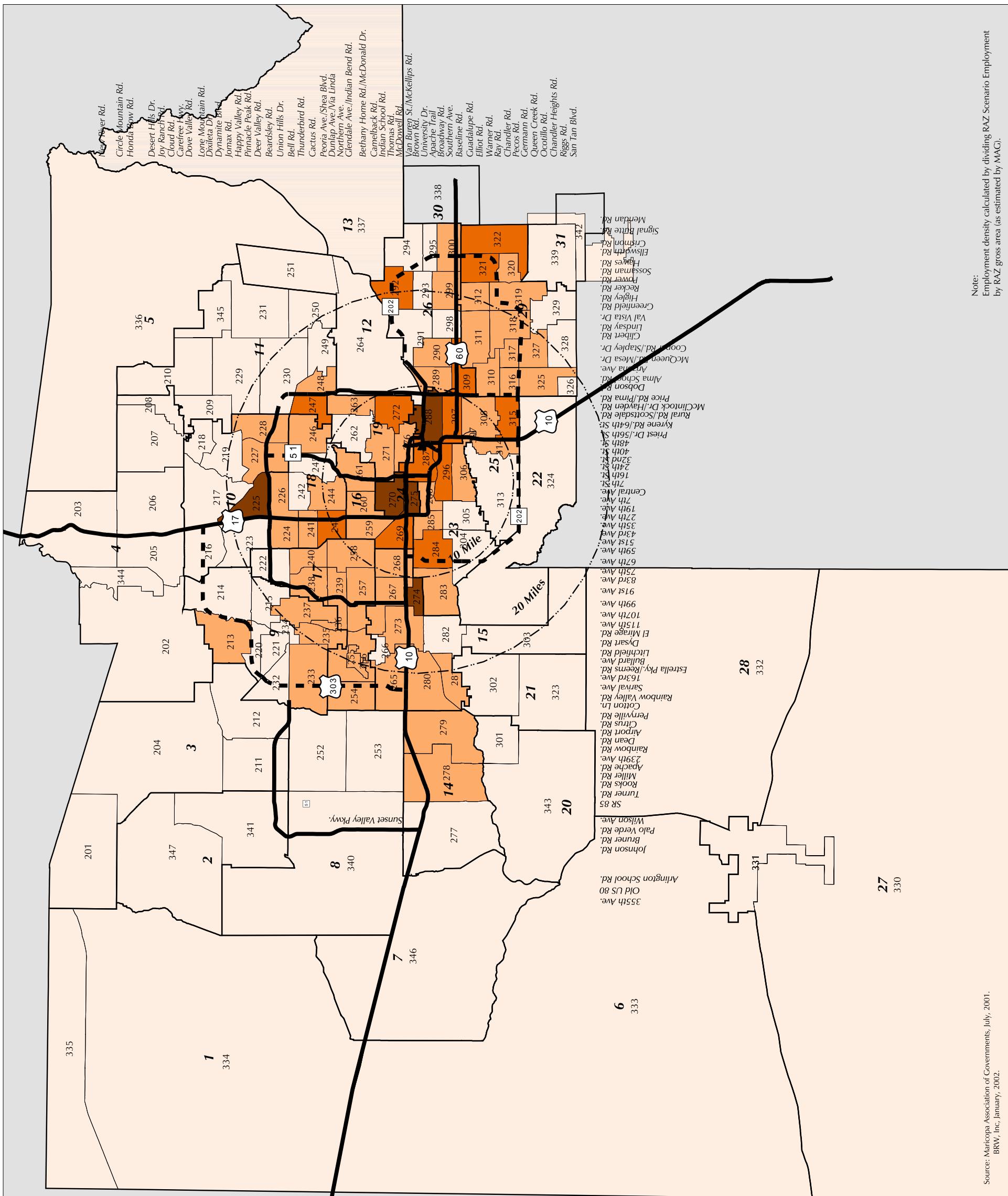


Table B-1: Growth Scenario 1, Base Case/General Plan Framework - Population

Raz	Rtpz	Pop2000	Bopop_10	Bopop_30	Bopop_tgt	Bopop_90ma	Bopop_110	Categories	Scen_Pop
201	3	7,406	5,231	15,692	52,305	94,921	116,015	Bopop-Target	52,305
202	4	248	12,447	37,341	124,470	179,559	219,461	Bopop-Target	124,470
203	4	2,025	3,039	9,118	30,394	231,654	283,133	Bopop-Target	30,394
204	3	2,702	9,889	29,668	98,892	213,935	261,476	Bopop-Target	98,892
205	4	1,785	19,666	58,998	196,659	257,810	315,101	Bopop-30	75,000
206	4	8,806	7,452	22,356	74,520	135,359	165,439	Bopop-Target	100,000
207	4	3,812	1,557	4,670	15,568	92,126	112,598	Bopop-Target	15,568
208	4	2,927	606	1,817	6,056	11,645	14,233	Bopop-Target	6,056
209	11	6,889	2,554	7,661	25,538	28,586	34,938	Bopop-Target	25,538
210	11	1,589	5,501	16,502	55,005	66,174	80,879	Bopop-Target	55,005
211	3	314	9,746	29,239	97,463	126,691	154,845	Bopop-Target	97,463
212	3	2,582	14,727	44,180	147,265	180,804	220,983	Bopop-Target	147,265
213	9	60	10,306	30,917	103,055	145,956	178,391	Bopop-Target	103,055
214	9	3,735	10,530	31,591	105,303	150,928	184,468	Bopop-Target	105,303
215	9	29,695	5,266	15,799	52,664	56,202	68,691	Bopop-Target	52,664
216	10	4	10,880	32,640	108,800	147,701	180,523	Bopop-Target	108,800
217	10	572	9,182	27,546	91,820	130,693	159,736	Bopop-Target	91,820
218	10	8,940	1,867	5,602	18,673	21,557	26,347	Bopop-Target	18,673
219	10	10,656	7,763	23,288	77,626	88,841	108,583	Bopop-Target	77,626
220	9	5,287	1,916	5,749	19,163	24,420	29,847	Bopop-Target	19,163
221	9	21,114	3,339	10,017	33,391	41,307	50,486	Bopop-Target	33,391
222	17	46,516	5,507	16,520	55,066	55,869	68,284	Bopop-Target	55,066
223	10	31,445	5,699	17,098	56,994	60,737	74,234	Bopop-Target	56,994
224	18	46,796	5,146	15,439	51,463	52,102	63,680	Bopop-Target	51,463
225	10	11,284	2,698	8,094	26,979	30,099	36,788	Bopop-Target	26,979
226	18	62,241	7,385	22,155	73,850	77,335	94,521	Bopop-Target	73,850
227	10	36,010	8,491	25,473	84,909	91,879	112,297	Bopop-Target	84,909
228	10	9,152	8,677	26,030	86,767	101,466	124,014	Bopop-Target	86,767
229	11	13,525	5,995	17,985	59,951	66,299	81,032	Bopop-Target	59,951
230	11	15,820	5,458	16,373	54,576	57,260	69,984	Bopop-Target	54,576
231	11	1,385	142	427	1,424	1,424	1,740	Bopop-Target	1,424
232	9	15,424	5,308	15,925	53,083	55,280	67,564	Bopop-Target	53,083
233	9	6,413	14,631	43,892	146,305	165,587	202,384	Bopop-Target	146,305
234	9	8,551	1,627	4,882	16,272	17,048	20,836	Bopop-Target	16,272
235	9	7,609	5,196	15,588	51,961	54,454	66,555	Bopop-Target	51,961
236	9	3,013	441	1,324	4,412	5,063	6,188	Bopop-Target	4,412
237	9	38,471	5,426	16,279	54,262	64,782	79,178	Bopop-Target	54,262
238	17	48,579	6,253	18,759	62,530	69,365	84,779	Bopop-Target	62,530
239	17	29,906	4,787	14,361	47,869	56,288	68,796	Bopop-Target	47,869
240	17	42,638	4,656	13,968	46,561	47,446	57,990	Bopop-Target	46,561
241	18	43,333	4,886	14,657	48,858	49,625	60,653	Bopop-Target	48,858
242	18	28,872	3,550	10,650	35,500	37,117	45,365	Bopop-Target	35,500
243	18	57,913	6,014	18,043	60,144	61,338	74,969	Bopop-Target	60,144
244	18	54,253	6,545	19,636	65,454	67,929	83,024	Bopop-Target	65,454
245	18	57,095	6,564	19,692	65,641	66,822	81,671	Bopop-Target	65,641
246	18	60,651	6,567	19,702	65,672	66,248	80,970	Bopop-Target	65,672
247	11	11,852	1,411	4,232	14,107	14,867	18,171	Bopop-Target	14,107
248	11	36,311	3,932	11,797	39,323	40,422	49,405	Bopop-Target	39,323
249	11	18,101	2,965	8,896	29,653	33,104	40,460	Bopop-Target	29,653
250	11	20,235	3,326	9,978	33,260	36,109	44,133	Bopop-Target	33,260
251	12	824	82	247	824	824	1,007	Bopop-Target	824
252	8	0	1,906	5,717	19,056	33,920	41,458	Bopop-Target	19,056
253	8	1,935	13,229	39,686	132,288	165,959	202,839	Bopop-Target	132,288

Table B-1: Growth Scenario 1, Base Case/General Plan Framework - Population

Raz	Rtpz	Pop2000	Bopop_10	Bopop_30	Bopop_tgt	Bopop_90ma	Bopop_110	Categories	Scen_Pop
254	17	3,024	5,311	15,932	53,108	73,254	89,533	Bopop-Target	53,108
255	17	4,414	3,518	10,553	35,178	51,603	63,070	Bopop-Target	35,178
256	17	3,851	814	2,441	8,136	10,993	13,436	Bopop-Target	8,136
257	17	32,547	6,925	20,776	69,254	81,512	99,626	Bopop-Target	69,254
258	17	96,396	10,914	32,741	109,137	115,492	141,157	Bopop-Target	109,137
259	16	72,532	7,780	23,341	77,802	79,226	96,832	Bopop-Target	77,802
260	16	55,121	5,964	17,892	59,640	60,254	73,644	Bopop-Target	59,640
261	16	31,459	3,289	9,867	32,890	33,254	40,644	Bopop-Target	32,890
262	19	13,891	1,684	5,053	16,842	21,132	25,828	Bopop-Target	16,842
263	19	34,189	3,506	10,519	35,064	35,462	43,342	Bopop-Target	35,064
264	12	6,402	680	2,041	6,804	9,346	11,423	Bopop-Target	6,804
265	15	6,442	4,917	14,752	49,173	50,500	61,722	Bopop-Target	49,173
266	15	3,813	2,573	7,719	25,731	27,765	33,935	Bopop-Target	25,731
267	15	56,712	10,013	30,040	100,132	117,922	144,127	Bopop-Target	100,132
268	15	87,979	11,163	33,490	111,633	123,546	151,001	Bopop-Target	111,633
269	16	67,048	7,009	21,027	70,091	71,195	87,016	Bopop-Target	70,091
270	24	70,180	7,754	23,262	77,539	79,113	96,694	Bopop-Target	77,539
271	19	62,456	6,587	19,760	65,867	66,588	81,385	Bopop-Target	65,867
272	19	64,293	6,660	19,979	66,597	67,216	82,153	Bopop-Target	66,597
273	15	24,608	8,158	24,473	81,577	88,979	108,752	Bopop-Target	81,577
274	15	4,977	601	1,803	6,009	6,123	7,484	Bopop-Target	6,009
275	24	27,917	3,170	9,509	31,697	32,237	39,401	Bopop-Target	31,697
276	19	42,692	5,197	15,591	51,970	54,834	67,019	Bopop-Target	51,970
277	14	1,724	15,207	45,621	152,070	263,619	322,201	Bopop-Target	152,070
278	14	9,882	19,700	59,100	196,999	258,444	315,876	Bopop-Target	196,999
279	14	2,579	17,652	52,957	176,522	230,353	281,543	Bopop-Target	176,522
280	15	10,974	12,097	36,290	120,965	129,626	158,432	Bopop-Target	120,965
281	15	160	1,122	3,367	11,224	11,254	13,755	Bopop-Target	11,224
282	15	12,643	4,852	14,556	48,521	51,547	63,002	Bopop-Target	48,521
283	23	2,065	5,987	17,961	59,871	64,919	79,345	Bopop-Target	59,871
284	23	1,140	3,516	10,548	35,160	41,628	50,879	Bopop-Target	35,160
285	23	18,249	1,932	5,796	19,321	19,440	23,760	Bopop-Target	19,321
286	23	16,427	2,040	6,120	20,400	21,238	25,958	Bopop-Target	20,400
287	23	25,419	3,743	11,229	37,429	40,378	49,351	Bopop-Target	37,429
288	25	54,645	6,313	18,939	63,129	64,289	78,575	Bopop-Target	63,129
289	26	60,856	6,619	19,856	66,187	68,887	84,195	Bopop-Target	66,187
290	26	76,828	8,037	24,111	80,371	81,673	99,823	Bopop-Target	80,371
291	26	44,787	5,935	17,805	59,351	62,728	76,668	Bopop-Target	59,351
292	26	17,807	3,012	9,035	30,117	32,721	39,992	Bopop-Target	30,117
293	26	29,610	3,603	10,808	36,028	36,915	45,118	Bopop-Target	36,028
294	26	3,426	1,576	4,728	15,759	23,847	29,146	Bopop-Target	15,759
295	26	19,034	3,411	10,233	34,110	38,547	47,113	Bopop-Target	34,110
296	23	32,850	5,476	16,429	54,764	63,145	77,177	Bopop-Target	54,764
297	25	49,683	5,357	16,070	53,567	55,443	67,764	Bopop-Target	53,567
298	26	50,812	5,817	17,452	58,173	61,943	75,708	Bopop-Target	58,173
299	26	34,768	4,904	14,711	49,035	51,972	63,521	Bopop-Target	49,035
300	26	31,165	6,202	18,606	62,020	72,712	88,870	Bopop-Target	62,020
301	20	2,193	418	1,254	4,180	4,837	5,912	Bopop-Target	4,180
302	21	2,909	16,108	48,323	161,078	166,854	203,933	Bopop-Target	161,078
303	15	39	1,558	4,674	15,581	22,461	27,452	Bopop-Target	15,581
304	23	8,450	7,898	23,694	78,979	95,317	116,499	Bopop-Target	78,979
305	23	15,022	5,388	16,164	53,881	60,876	74,404	Bopop-Target	53,881
306	23	43,591	6,248	18,743	62,478	65,651	80,240	Bopop-Target	62,478

Table B-1: Growth Scenario 1, Base Case/General Plan Framework - Population

Raz	Rtpz	Pop2000	Bopop_10	Bopop_30	Bopop_tgt	Bopop_90ma	Bopop_110	Categories	Scen_Pop
307	25	5,228	712	2,136	7,121	7,856	9,602	Bopop-Target	7,121
308	25	54,384	5,658	16,973	56,576	57,339	70,081	Bopop-Target	56,576
309	26	47,147	5,052	15,157	50,522	51,071	62,420	Bopop-Target	50,522
310	29	49,301	5,510	16,529	55,098	55,737	68,123	Bopop-Target	55,098
311	29	70,924	7,976	23,927	79,756	80,114	97,917	Bopop-Target	79,756
312	29	14,196	4,465	13,396	44,652	44,795	54,749	Bopop-Target	44,652
313	25	41,490	5,784	17,352	57,840	59,241	72,406	Bopop-Target	57,840
314	25	34,671	3,919	11,757	39,189	40,569	49,584	Bopop-Target	39,189
315	25	39,111	4,302	12,906	43,019	43,737	53,456	Bopop-Target	43,019
316	29	30,117	3,979	11,938	39,794	40,778	49,840	Bopop-Target	39,794
317	29	30,439	3,570	10,710	35,699	37,359	45,661	Bopop-Target	35,699
318	29	25,356	5,911	17,733	59,109	63,354	77,433	Bopop-Target	59,109
319	29	4,509	11,698	35,093	116,977	126,441	154,539	Bopop-Target	121,000
320	29	1,065	372	1,115	3,715	4,317	5,276	Bopop-Target	3,715
321	29	14,611	6,003	18,010	60,032	84,544	103,332	Bopop-Target	60,032
322	29	4,644	8,534	25,603	85,343	99,123	121,150	Bopop-Target	85,343
323	21	186	35,600	106,801	356,002	385,030	470,592	Bopop-Target	356,002
324	22	2,699	1,097	3,292	10,972	19,253	23,531	Bopop-Target	10,972
325	29	26,031	5,739	17,217	57,390	60,811	74,325	Bopop-Target	57,390
326	29	8,337	939	2,818	9,394	9,394	11,482	Bopop-Target	9,394
327	29	2,798	2,957	8,870	29,565	34,449	42,104	Bopop-Target	29,565
328	29	5,442	4,042	12,127	40,422	48,403	59,159	Bopop-Target	40,422
329	29	2,293	5,697	17,092	56,974	63,929	78,135	Bopop-Target	56,974
330	27	309	5,096	15,287	50,956	67,819	82,890	No Growth	309
331	27	2,080	13,107	39,321	131,070	199,309	243,600	Bopop-Target	131,070
332	28	148	8,528	25,585	85,283	111,220	135,936	Bopop-10	8,528
333	6	1,201	38,143	114,428	381,425	504,157	616,192	No Growth	1,201
334	1	930	17,792	53,376	177,919	236,880	289,520	No Growth	930
335	1	326	2,004	6,012	20,039	26,598	32,509	No Growth	326
336	5	386	575	1,725	5,751	6,167	7,537	Bopop-10	575
337	13	82	216	647	2,157	2,567	3,137	Bopop-10	216
339	31	7,238	10,628	31,884	106,280	114,597	140,063	Bopop-Target	110,000
340	8	262	114,618	343,853	1,146,176	1,411,610	1,725,301	Bopop-10	230,000
341	2	78	47,875	143,626	478,752	633,115	773,807	Bopop-30	293,343
342	31	119	1,315	3,946	13,153	28,063	34,299	Bopop-Target	13,153
343	20	94	22,265	66,795	222,650	278,308	340,154	Bopop-10	22,265
344	4	0	4,824	14,473	48,243	74,889	91,531	Bopop-30	20,000
345	11	758	1,079	3,236	10,787	13,412	16,392	Bopop-Target	10,787
346	7	2,735	9,507	28,522	95,072	173,123	211,595	Bopop-10	9,507
347	2	563	3,140	9,420	31,399	60,172	73,544	Bopop-10	6,000
Scenario Total									8,500,000
Note: Scenario population values are based on the identified category reference. However, for the shaded entries planning judgement was applied to data in selected regional analysis zones (RAZ) to reflect specific conditions of each individual scenario.									
Source: URSP/RW, January 2002.									

Table B-2: Growth Scenario 1,Base Case/General Plan Framework - Employment

Raz	Rtpz	Emp2000	BoEmp_10	BoEmp_30	Empbo	BoEmp_110	Categories	Scen_Emp
201	3	3,530	2,183	6,548	21,825	24,008	BoEmp-30	6,548
202	4	22	2,968	8,903	29,676	32,644	BoEmp-30	8,903
203	4	209	184	552	1,840	2,024	BoEmp-Target	1,840
204	3	296	1,514	4,543	15,143	16,657	BoEmp-Target	12,483
205	4	407	7,936	23,809	79,362	87,298	BoEmp-30	20,000
206	4	1,149	3,184	9,552	31,840	35,024	BoEmp-30	15,000
207	4	1,546	557	1,672	5,574	6,131	BoEmp-Target	5,574
208	4	1,805	331	993	3,311	3,642	BoEmp-Target	3,311
209	11	1,318	330	989	3,298	3,628	BoEmp-Target	3,298
210	11	485	1,237	3,710	12,367	13,604	BoEmp-Target	12,367
211	3	0	3,781	11,342	37,807	41,588	BoEmp-Target	37,807
212	3	190	4,006	12,017	40,056	44,062	BoEmp-Target	40,056
213	9	0	4,403	13,210	44,032	48,435	BoEmp-Target	44,032
214	9	88	4,040	12,121	40,403	44,443	BoEmp-Target	40,403
215	9	2,546	852	2,555	8,518	9,370	BoEmp-Target	8,518
216	10	4	2,954	8,861	29,535	32,489	BoEmp-Target	29,535
217	10	833	2,729	8,187	27,290	30,019	BoEmp-Target	27,290
218	10	366	174	522	1,740	1,914	BoEmp-Target	1,740
219	10	512	298	893	2,976	3,274	BoEmp-Target	2,976
220	9	69	681	2,042	6,807	7,488	BoEmp-Target	6,807
221	9	4,031	2,679	8,036	26,785	29,464	BoEmp-30	8,036
222	17	11,079	1,940	5,821	19,404	21,344	BoEmp-Target	19,404
223	10	5,604	1,994	5,982	19,940	21,934	BoEmp-Target	19,940
224	18	18,016	2,030	6,090	20,299	22,329	BoEmp-Target	20,299
225	10	18,626	10,262	30,786	102,621	112,883	BoEmp-Target	102,621
226	18	20,044	2,567	7,700	25,667	28,234	BoEmp-Target	25,667
227	10	6,050	2,681	8,044	26,813	29,494	BoEmp-Target	26,813
228	10	717	3,665	10,995	36,650	40,315	BoEmp-Target	36,650
229	11	4,769	1,293	3,878	12,928	14,221	BoEmp-Target	12,928
230	11	4,016	3,789	11,366	37,887	41,676	BoEmp-Target	37,887
231	11	237	25	75	250	275	BoEmp-Target	250
232	9	537	464	1,392	4,641	5,105	BoEmp-Target	4,641
233	9	609	4,317	12,950	43,167	47,484	BoEmp-Target	43,167
234	9	1,752	177	530	1,766	1,943	BoEmp-Target	1,766
235	9	1,019	3,547	10,642	35,473	39,020	BoEmp-Target	35,473
236	9	1,395	312	937	3,123	3,435	BoEmp-Target	3,123
237	9	10,294	4,253	12,758	42,527	46,780	BoEmp-Target	42,527
238	17	9,921	2,327	6,980	23,267	25,594	BoEmp-Target	23,267
239	17	6,672	3,158	9,474	31,581	34,739	BoEmp-Target	31,581
240	17	12,275	1,780	5,339	17,797	19,577	BoEmp-Target	17,797
241	18	10,383	1,466	4,397	14,658	16,124	BoEmp-Target	14,658
242	18	7,842	997	2,990	9,966	10,963	BoEmp-Target	9,966
243	18	45,638	4,958	14,873	49,578	54,536	BoEmp-Target	49,578
244	18	18,800	2,016	6,048	20,160	22,176	BoEmp-Target	20,160
245	18	14,453	1,678	5,034	16,781	18,459	BoEmp-Target	16,781
246	18	19,774	2,487	7,462	24,873	27,360	BoEmp-Target	24,873
247	11	28,437	3,530	10,589	35,295	38,825	BoEmp-Target	35,295
248	11	14,682	2,811	8,432	28,106	30,917	BoEmp-Target	28,106
249	11	4,670	1,715	5,146	17,154	18,869	BoEmp-Target	17,154
250	11	3,824	894	2,682	8,939	9,833	BoEmp-Target	8,939
251	12	1,812	181	544	1,812	1,993	BoEmp-Target	1,812
252	8	0	0	0	1	1	BoEmp-30	2,000
253	8	163	1,443	4,328	14,425	15,868	BoEmp-Target	14,425

Table B-2: Growth Scenario 1,Base Case/General Plan Framework - Employment

Raz	Rtpz	Emp2000	BoEmp_10	BoEmp_30	Empbo	BoEmp_110	Categories	Scen_Emp
254	17	270	2,643	7,930	26,434	29,077	BoEmp-Target	26,434
255	17	1,007	4,187	12,562	41,874	46,061	BoEmp-Target	41,874
256	17	7,559	1,074	3,223	10,743	11,817	BoEmp-Target	10,743
257	17	5,835	6,732	20,197	67,324	74,056	BoEmp-Target	67,324
258	17	31,918	3,959	11,876	39,585	43,544	BoEmp-Target	39,585
259	16	18,467	1,969	5,908	19,692	21,661	BoEmp-Target	19,692
260	16	26,614	2,677	8,030	26,765	29,442	BoEmp-Target	26,765
261	16	35,286	3,557	10,672	35,572	39,129	BoEmp-Target	35,572
262	19	6,219	1,640	4,919	16,396	18,036	BoEmp-Target	16,396
263	19	22,885	2,487	7,460	24,868	27,355	BoEmp-Target	24,868
264	12	3,418	10,338	31,015	103,382	113,720	BoEmp-Target	103,382
265	15	2,860	11,959	35,876	119,587	131,546	BoEmp-Target	84,073
266	15	1,535	334	1,002	3,339	3,673	BoEmp-Target	3,339
267	15	5,606	4,608	13,823	46,076	50,684	BoEmp-Target	46,076
268	15	12,964	2,657	7,971	26,570	29,227	BoEmp-Target	26,570
269	16	38,069	4,934	14,803	49,342	54,276	BoEmp-Target	49,342
270	24	81,942	8,426	25,278	84,259	92,685	BoEmp-Target	84,259
271	19	53,800	5,591	16,772	55,905	61,496	BoEmp-Target	55,905
272	19	52,520	5,857	17,570	58,566	64,423	BoEmp-Target	58,566
273	15	3,212	6,359	19,076	63,585	69,944	BoEmp-Target	63,585
274	15	8,168	4,681	14,042	46,807	51,488	BoEmp-Target	46,807
275	24	69,664	7,781	23,342	77,805	85,586	BoEmp-Target	77,805
276	19	22,755	3,036	9,108	30,359	33,395	BoEmp-Target	30,359
277	14	2,720	21,888	65,663	218,875	240,763	BoEmp-30	65,663
278	14	2,543	9,036	27,108	90,359	99,395	BoEmp-Target	90,359
279	14	956	7,411	22,233	74,111	81,522	BoEmp-Target	74,111
280	15	3,742	3,543	10,628	35,427	38,970	BoEmp-Target	35,427
281	15	1,894	1,658	4,975	16,583	18,241	BoEmp-Target	16,583
282	15	1,406	1,094	3,282	10,940	12,034	BoEmp-Target	10,940
283	23	2,436	4,660	13,980	46,601	51,261	BoEmp-Target	46,601
284	23	22,560	5,852	17,557	58,522	64,374	BoEmp-Target	58,522
285	23	16,648	2,562	7,686	25,619	28,181	BoEmp-Target	25,619
286	23	16,356	2,157	6,470	21,566	23,723	BoEmp-Target	21,566
287	23	56,924	7,312	21,936	73,119	80,431	BoEmp-Target	73,119
288	25	70,019	9,216	27,647	92,155	101,371	BoEmp-Target	92,155
289	26	29,274	3,875	11,625	38,751	42,626	BoEmp-Target	38,751
290	26	29,211	3,369	10,107	33,690	37,059	BoEmp-Target	33,690
291	26	7,327	1,962	5,885	19,615	21,577	BoEmp-Target	19,615
292	26	8,712	6,192	18,576	61,920	68,112	BoEmp-Target	61,920
293	26	3,629	1,073	3,219	10,730	11,803	BoEmp-Target	10,730
294	26	268	326	979	3,264	3,590	BoEmp-Target	3,264
295	26	1,126	291	872	2,907	3,198	BoEmp-Target	2,907
296	23	46,134	5,508	16,523	55,077	60,585	BoEmp-Target	55,077
297	25	47,149	5,109	15,326	51,086	56,195	BoEmp-Target	51,086
298	26	7,466	1,169	3,507	11,690	12,859	BoEmp-Target	11,690
299	26	17,519	3,186	9,559	31,862	35,048	BoEmp-Target	31,862
300	26	1,057	2,271	6,814	22,712	24,983	BoEmp-Target	22,712
301	20	167	233	698	2,327	2,560	BoEmp-Target	2,327
302	21	103	2,297	6,890	22,966	25,263	BoEmp-Target	22,966
303	15	0	87	260	865	952	BoEmp-Target	865
304	23	859	1,744	5,233	17,442	19,186	BoEmp-Target	17,442
305	23	2,085	906	2,718	9,060	9,966	BoEmp-Target	9,060
306	23	11,290	1,941	5,822	19,405	21,346	BoEmp-Target	19,405

Table B-2: Growth Scenario 1,Base Case/General Plan Framework - Employment

Raz	Rtpz	Emp2000	BoEmp_10	BoEmp_30	Empbo	BoEmp_110	Categories	Scen_Emp
307	25	487	156	467	1,556	1,712	BoEmp-Target	1,556
308	25	40,605	5,772	17,315	57,715	63,487	BoEmp-Target	57,715
309	26	30,584	4,094	12,282	40,939	45,033	BoEmp-Target	40,939
310	29	14,931	2,410	7,229	24,098	26,508	BoEmp-Target	24,098
311	29	19,599	3,800	11,400	38,000	41,800	BoEmp-Target	38,000
312	29	1,097	2,202	6,605	22,015	24,217	BoEmp-Target	22,015
313	25	2,794	627	1,882	6,272	6,899	BoEmp-Target	6,272
314	25	11,549	1,892	5,675	18,915	20,807	BoEmp-Target	18,915
315	25	21,359	5,817	17,451	58,170	63,987	BoEmp-Target	58,170
316	29	10,039	1,917	5,750	19,168	21,085	BoEmp-Target	19,168
317	29	3,817	700	2,099	6,997	7,697	BoEmp-Target	8,500
318	29	1,262	4,875	14,624	48,746	53,621	BoEmp-Target	48,746
319	29	450	2,480	7,439	24,796	27,276	BoEmp-Target	24,796
320	29	696	2,543	7,628	25,427	27,970	BoEmp-Target	25,427
321	29	2,246	7,165	21,496	71,652	78,817	BoEmp-Target	71,652
322	29	3,682	11,657	34,970	116,568	128,225	BoEmp-Target	116,568
323	21	103	1,785	5,355	17,851	19,636	BoEmp-Target	17,851
324	22	3,563	6,676	20,028	66,759	73,435	BoEmp-Target	66,759
325	29	7,383	2,982	8,945	29,817	32,799	BoEmp-Target	29,817
326	29	2,229	223	669	2,229	2,452	BoEmp-Target	2,229
327	29	936	4,611	13,834	46,113	50,724	BoEmp-Target	46,113
328	29	974	1,084	3,251	10,838	11,922	BoEmp-Target	10,838
329	29	522	501	1,502	5,008	5,509	BoEmp-Target	5,008
330	27	30	3	9	30	33	BoEmp-Target	30
331	27	820	9,941	29,824	99,412	109,353	BoEmp-30	60,000
332	28	7	1	2	7	8	BoEmp-Target	7
333	6	4,445	555	1,665	5,550	6,105	BoEmp-Target	5,550
334	1	128	13	38	128	141	BoEmp-Target	128
335	1	8	1	2	8	9	BoEmp-Target	8
336	5	65	159	477	1,590	1,749	BoEmp-30	477
337	13	62	24	72	240	264	BoEmp-30	72
339	31	1,511	660	1,979	6,598	7,258	BoEmp-Target	6,598
340	8	0	52,345	157,034	523,446	575,791	BoEmp-10	52,345
341	2	0	29,089	87,267	290,889	319,978	BoEmp-10	54,527
342	31	64	6	19	64	70	BoEmp-Target	64
343	20	1,138	114	341	1,138	1,252	BoEmp-Target	1,138
344	4	28	3	8	28	31	BoEmp-Target	28
345	11	15	17	50	167	184	BoEmp-Target	167
346	7	673	6,272	18,815	62,715	68,987	BoEmp-10	6,272
347	2	7	1	3	10	11	BoEmp-Target	10
Scenario Total								4,100,000
Note: Scenario employment values are based on the identified category reference. However, for the shaded entries planning judgement was applied to data in selected regional analysis zones (RAZ) to reflect specific conditions of each individual scenario.								
Source: BRW/URS, January 2002.								

APPENDIX C: GROWTH SCENARIO 2, INFILL/URBAN REVITALIZATION EMPHASIS

Figure C-1: Growth Scenario 2, Infill/Urban Revitalization Emphasis – Population Allocation

Figure C-2: Growth Scenario 2, Infill/Urban Revitalization Emphasis – Employment Allocation

Figure C-3: Growth Scenario 2, Infill/Urban Revitalization Emphasis – Population Density

Figure C-4: Growth Scenario 2, Infill/Urban Revitalization Emphasis – Employment Density

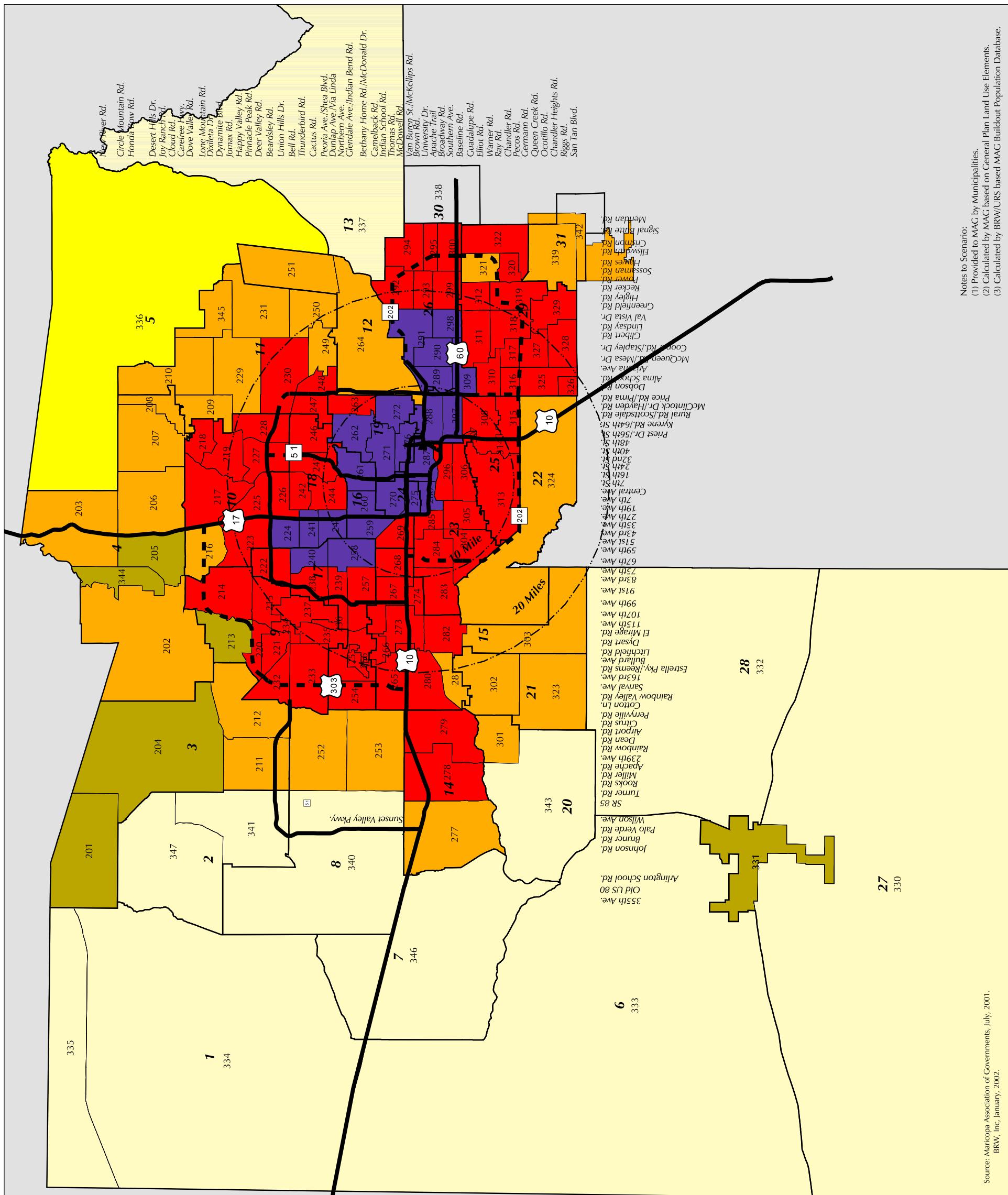
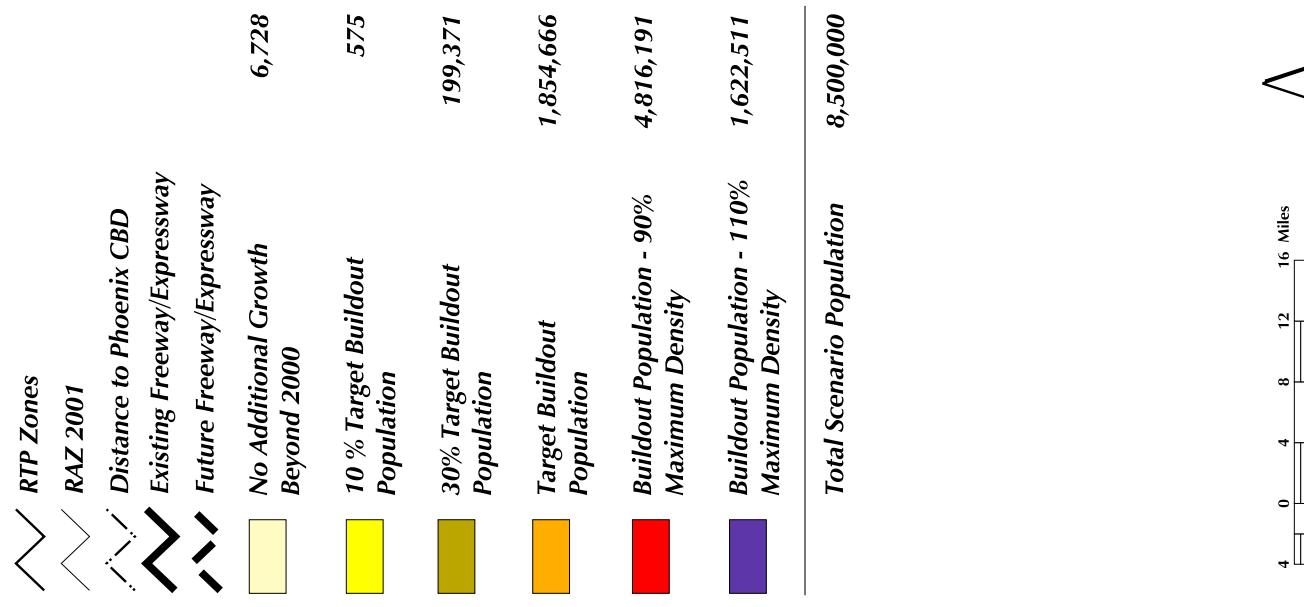
Table C-1: Growth Scenario 2, Infill/Urban Revitalization Emphasis – Population

Table C-2: Growth Scenario 2, Infill/Urban Revitalization Emphasis – Employment

MAG REGIONAL TRANSPORTATION PLAN

Figure C-1

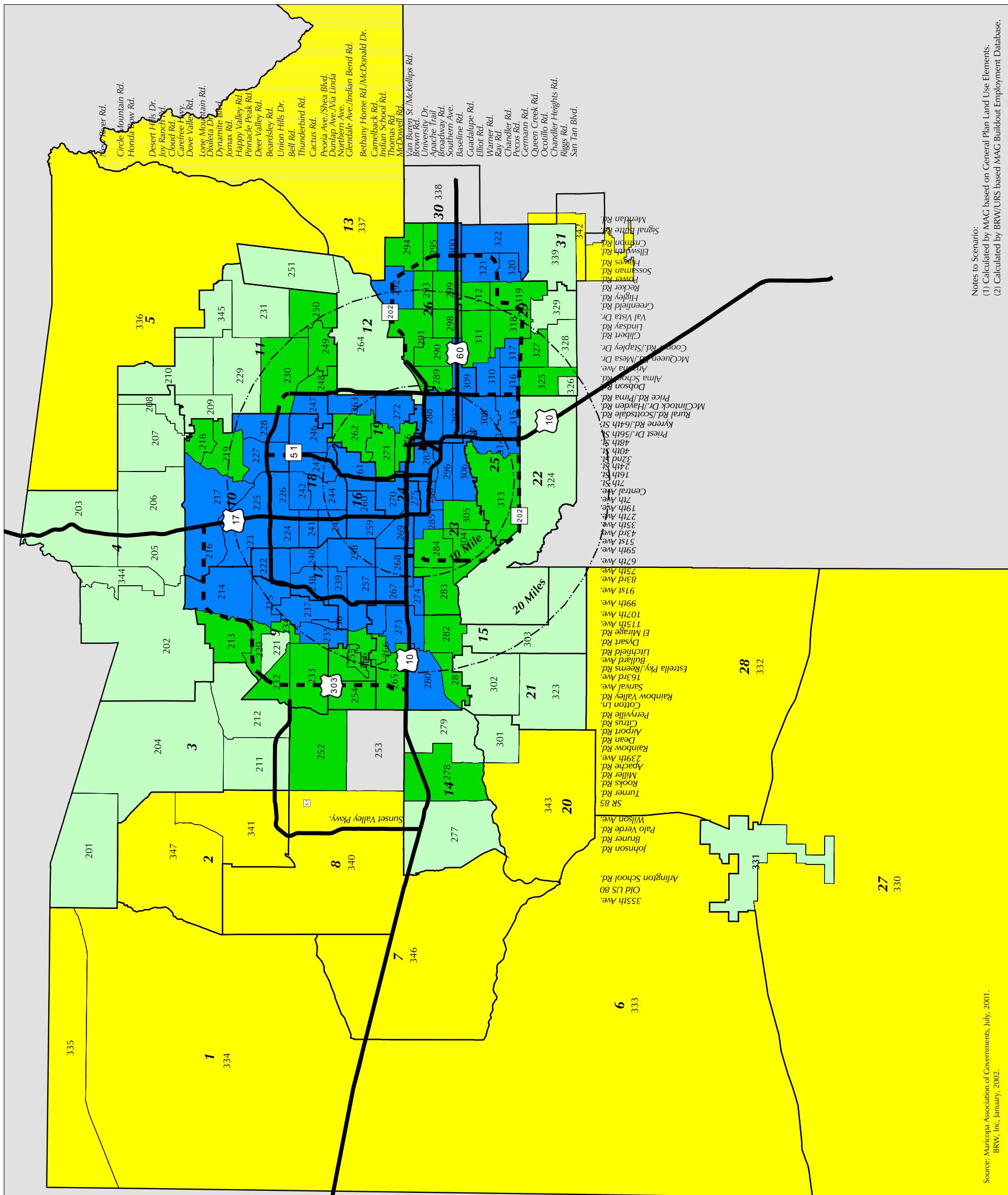
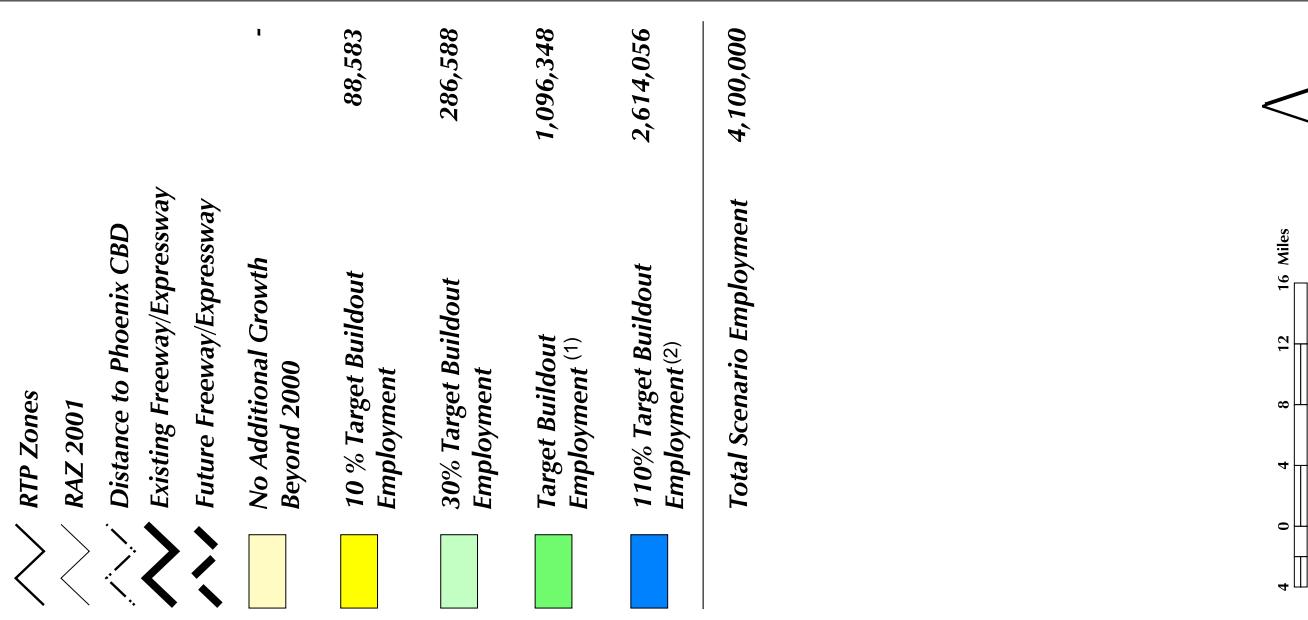
Growth Scenario 2, Infill/Urban Revitalization Emphasis- Population Allocation



MAG REGIONAL TRANSPORTATION PLAN

Figure C-2

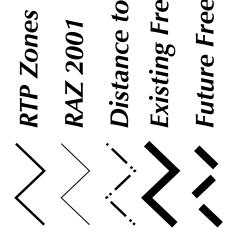
Growth Scenario 2, Infill/Urban Revitalization Emphasis- Employment Allocation



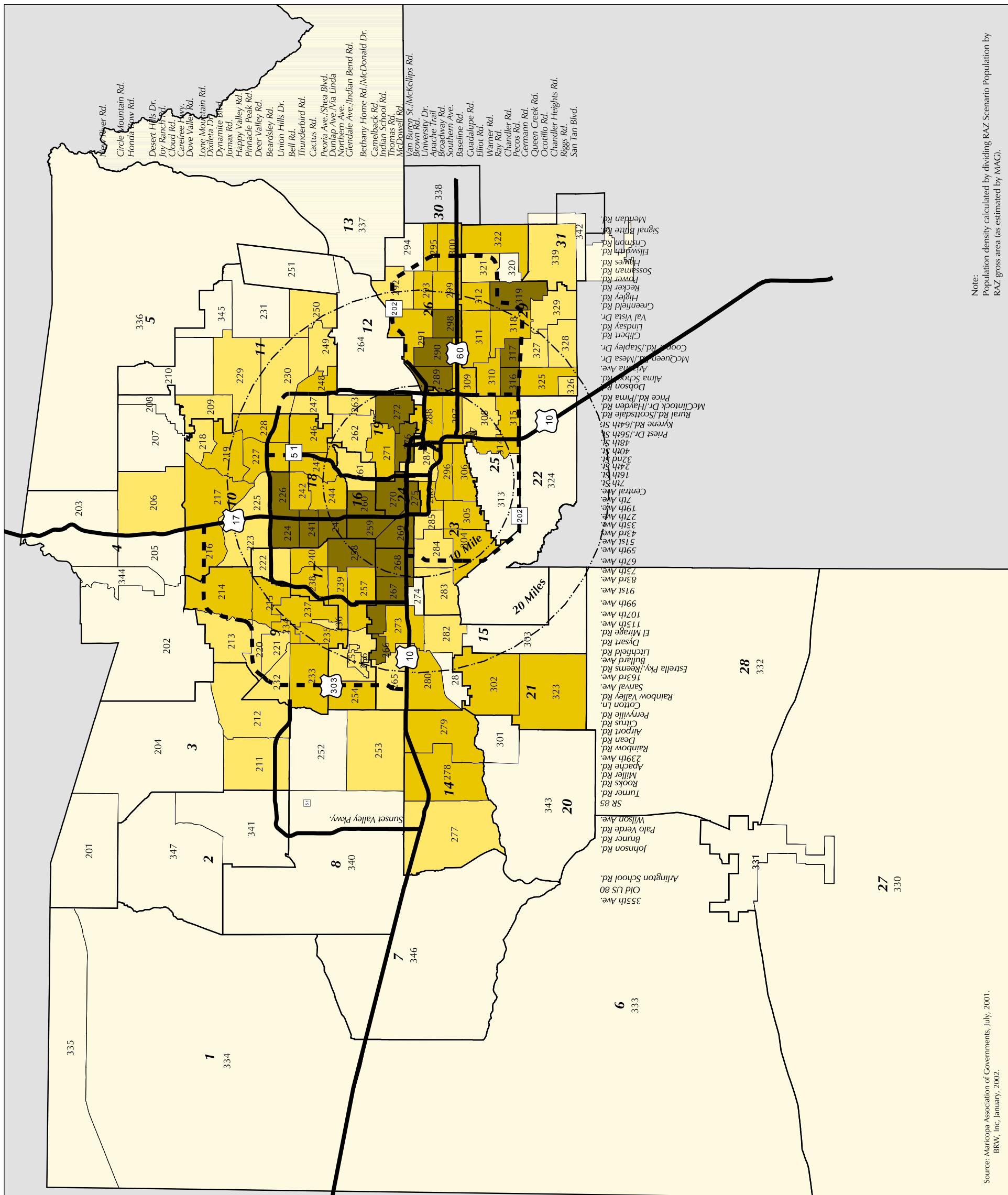
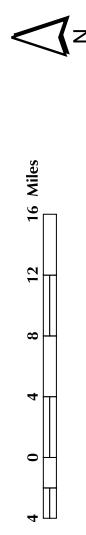
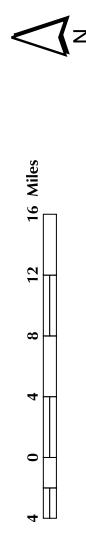
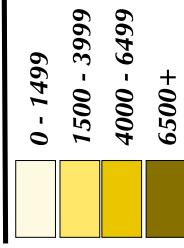
MAG REGIONAL TRANSPORTATION PLAN

Figure C-3

Growth Scenario 2, Infill/Urban Revitalization Emphasis- Population Density



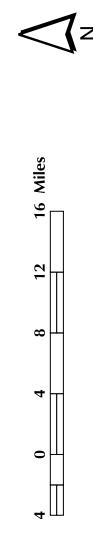
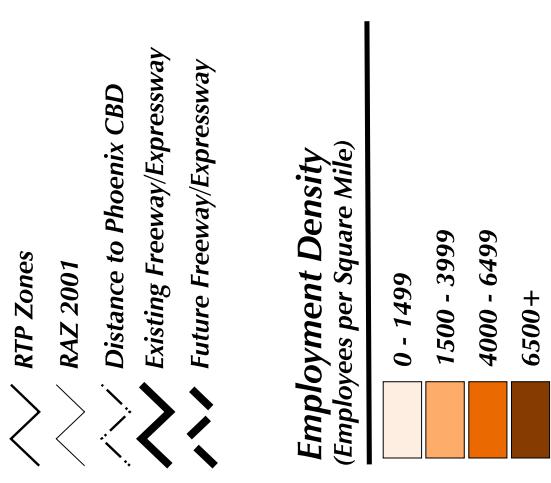
Population Density (Persons per Square Mile)



MAG REGIONAL TRANSPORTATION PLAN

Figure C-4

Growth Scenario 2, Infill/Urban Revitalization Emphasis- Employment Density



URS

Note: Employment density calculated by dividing RAZ Scenario Employment by RAZ gross area (as estimated by MAC).

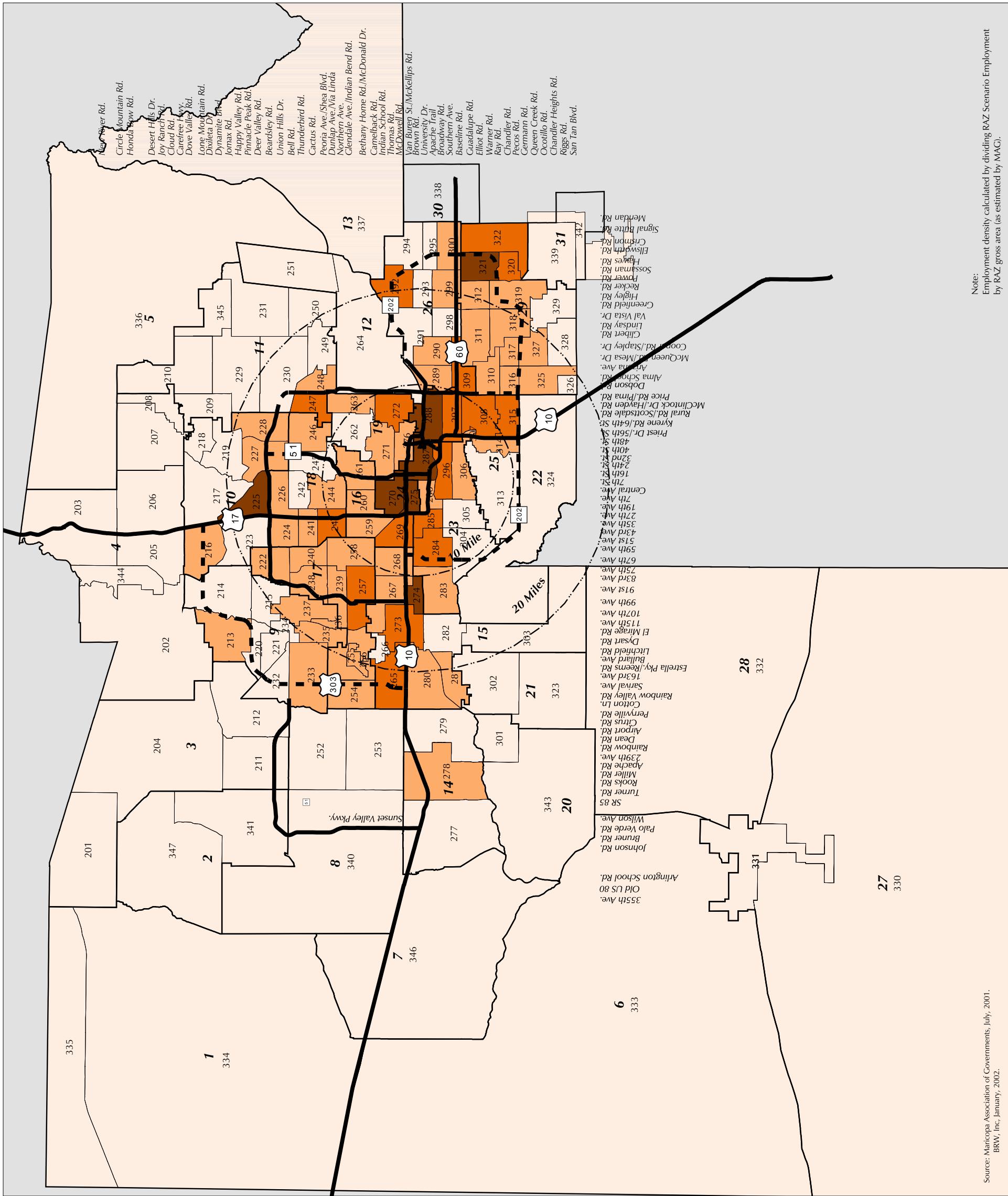


Table C-1: Growth Scenario 2, Infill/Urban Revitalization Emphasis - Population

Raz	Rtpz	Pop2000	Bopop_10	Bopop_30	Bopop_tgt	Bopop_90ma	Bopop_110	categories	Scen_pop
201	3	7,406	5,231	15,692	52,305	94,921	116,015	Bopop-30	15,692
202	4	248	12,447	37,341	124,470	179,559	219,461	Bopop-Target	124,470
203	4	2,025	3,039	9,118	30,394	231,654	283,133	Bopop-Target	30,394
204	3	2,702	9,889	29,668	98,892	213,935	261,476	Bopop-30	29,668
205	4	1,785	19,666	58,998	196,659	257,810	315,101	Bopop-30	40,000
206	4	8,806	7,452	22,356	74,520	135,359	165,439	Bopop-Target	74,520
207	4	3,812	1,557	4,670	15,568	92,126	112,598	Bopop-Target	15,568
208	4	2,927	606	1,817	6,056	11,645	14,233	Bopop-Target	6,056
209	11	6,889	2,554	7,661	25,538	28,586	34,938	Bopop-Target	25,538
210	11	1,589	5,501	16,502	55,005	66,174	80,879	Bopop-Target	55,005
211	3	314	9,746	29,239	97,463	126,691	154,845	Bopop-Target	97,463
212	3	2,582	14,727	44,180	147,265	180,804	220,983	Bopop-Target	147,265
213	9	60	10,306	30,917	103,055	145,956	178,391	Bopop-30	50,000
214	9	3,735	10,530	31,591	105,303	150,928	184,468	Bopop-90Max	150,928
215	9	29,695	5,266	15,799	52,664	56,202	68,691	Bopop-90Max	56,202
216	10	4	10,880	32,640	108,800	147,701	180,523	Bopop-Target	108,800
217	10	572	9,182	27,546	91,820	130,693	159,736	Bopop-90Max	130,693
218	10	8,940	1,867	5,602	18,673	21,557	26,347	Bopop-90Max	21,557
219	10	10,656	7,763	23,288	77,626	88,841	108,583	Bopop-90Max	88,841
220	9	5,287	1,916	5,749	19,163	24,420	29,847	Bopop-90Max	24,420
221	9	21,114	3,339	10,017	33,391	41,307	50,486	Bopop-90Max	33,391
222	17	46,516	5,507	16,520	55,066	55,869	68,284	Bopop-90Max	55,869
223	10	31,445	5,699	17,098	56,994	60,737	74,234	Bopop-90Max	60,737
224	18	46,796	5,146	15,439	51,463	52,102	63,680	Bopop-110	63,680
225	10	11,284	2,698	8,094	26,979	30,099	36,788	Bopop-90Max	30,099
226	18	62,241	7,385	22,155	73,850	77,335	94,521	Bopop-90Max	77,335
227	10	36,010	8,491	25,473	84,909	91,879	112,297	Bopop-90Max	91,879
228	10	9,152	8,677	26,030	86,767	101,466	124,014	Bopop-90Max	101,466
229	11	13,525	5,995	17,985	59,951	66,299	81,032	Bopop-Target	59,951
230	11	15,820	5,458	16,373	54,576	57,260	69,984	Bopop-90Max	57,260
231	11	1,385	142	427	1,424	1,424	1,740	Bopop-Target	1,424
232	9	15,424	5,308	15,925	53,083	55,280	67,564	Bopop-90Max	55,280
233	9	6,413	14,631	43,892	146,305	165,587	202,384	Bopop-90Max	165,587
234	9	8,551	1,627	4,882	16,272	17,048	20,836	Bopop-90Max	17,048
235	9	7,609	5,196	15,588	51,961	54,454	66,555	Bopop-90Max	54,454
236	9	3,013	441	1,324	4,412	5,063	6,188	Bopop-90Max	5,063
237	9	38,471	5,426	16,279	54,262	64,782	79,178	Bopop-90Max	64,782
238	17	48,579	6,253	18,759	62,530	69,365	84,779	Bopop-90Max	69,365
239	17	29,906	4,787	14,361	47,869	56,288	68,796	Bopop-90Max	56,288
240	17	42,638	4,656	13,968	46,561	47,446	57,990	Bopop-110	57,990
241	18	43,333	4,886	14,657	48,858	49,625	60,653	Bopop-110	60,653
242	18	28,872	3,550	10,650	35,500	37,117	45,365	Bopop-90Max	37,117
243	18	57,913	6,014	18,043	60,144	61,338	74,969	Bopop-110	74,969
244	18	54,253	6,545	19,636	65,454	67,929	83,024	Bopop-90Max	67,929
245	18	57,095	6,564	19,692	65,641	66,822	81,671	Bopop-90Max	66,822
246	18	60,651	6,567	19,702	65,672	66,248	80,970	Bopop-90Max	66,248
247	11	11,852	1,411	4,232	14,107	14,867	18,171	Bopop-90Max	14,867
248	11	36,311	3,932	11,797	39,323	40,422	49,405	Bopop-90Max	40,422
249	11	18,101	2,965	8,896	29,653	33,104	40,460	Bopop-Target	29,653
250	11	20,235	3,326	9,978	33,260	36,109	44,133	Bopop-Target	33,260
251	12	824	82	247	824	824	1,007	Bopop-Target	824
252	8	0	1,906	5,717	19,056	33,920	41,458	Bopop-Target	19,056
253	8	1,935	13,229	39,686	132,288	165,959	202,839	Bopop-Target	132,288

Table C-1: Growth Scenario 2, Infill/Urban Revitalization Emphasis - Population

Raz	Rtpz	Pop2000	Bopop_10	Bopop_30	Bopop_tgt	Bopop_90ma	Bopop_110	categories	Scen_pop
254	17	3,024	5,311	15,932	53,108	73,254	89,533	Bopop-90Max	73,254
255	17	4,414	3,518	10,553	35,178	51,603	63,070	Bopop-90Max	51,603
256	17	3,851	814	2,441	8,136	10,993	13,436	Bopop-90Max	10,993
257	17	32,547	6,925	20,776	69,254	81,512	99,626	Bopop-90Max	81,512
258	17	96,396	10,914	32,741	109,137	115,492	141,157	Bopop-110	141,157
259	16	72,532	7,780	23,341	77,802	79,226	96,832	Bopop-110	96,832
260	16	55,121	5,964	17,892	59,640	60,254	73,644	Bopop-110	73,644
261	16	31,459	3,289	9,867	32,890	33,254	40,644	Bopop-110	40,644
262	19	13,891	1,684	5,053	16,842	21,132	25,828	Bopop-110	25,828
263	19	34,189	3,506	10,519	35,064	35,462	43,342	Bopop-90Max	35,462
264	12	6,402	680	2,041	6,804	9,346	11,423	Bopop-Target	6,804
265	15	6,442	4,917	14,752	49,173	50,500	61,722	Bopop-90Max	50,500
266	15	3,813	2,573	7,719	25,731	27,765	33,935	Bopop-90Max	27,765
267	15	56,712	10,013	30,040	100,132	117,922	144,127	Bopop-90Max	117,922
268	15	87,979	11,163	33,490	111,633	123,546	151,001	Bopop-90Max	123,546
269	16	67,048	7,009	21,027	70,091	71,195	87,016	Bopop-90Max	71,195
270	24	70,180	7,754	23,262	77,539	79,113	96,694	Bopop-110	96,694
271	19	62,456	6,587	19,760	65,867	66,588	81,385	Bopop-110	81,385
272	19	64,293	6,660	19,979	66,597	67,216	82,153	Bopop-110	82,153
273	15	24,608	8,158	24,473	81,577	88,979	108,752	Bopop-90Max	88,979
274	15	4,977	601	1,803	6,009	6,123	7,484	Bopop-90Max	6,123
275	24	27,917	3,170	9,509	31,697	32,237	39,401	Bopop-110	39,401
276	19	42,692	5,197	15,591	51,970	54,834	67,019	Bopop-110	67,019
277	14	1,724	15,207	45,621	152,070	263,619	322,201	Bopop-Target	152,070
278	14	9,882	19,700	59,100	196,999	258,444	315,876	Bopop-90Max	258,444
279	14	2,579	17,652	52,957	176,522	230,353	281,543	Bopop-90Max	220,335
280	15	10,974	12,097	36,290	120,965	129,626	158,432	Bopop-90Max	139,626
281	15	160	1,122	3,367	11,224	11,254	13,755	Bopop-Target	11,224
282	15	12,643	4,852	14,556	48,521	51,547	63,002	Bopop-90Max	51,547
283	23	2,065	5,987	17,961	59,871	64,919	79,345	Bopop-90Max	64,919
284	23	1,140	3,516	10,548	35,160	41,628	50,879	Bopop-90Max	41,628
285	23	18,249	1,932	5,796	19,321	19,440	23,760	Bopop-90Max	19,440
286	23	16,427	2,040	6,120	20,400	21,238	25,958	Bopop-110	25,958
287	23	25,419	3,743	11,229	37,429	40,378	49,351	Bopop-110	49,351
288	25	54,645	6,313	18,939	63,129	64,289	78,575	Bopop-110	78,575
289	26	60,856	6,619	19,856	66,187	68,887	84,195	Bopop-110	84,195
290	26	76,828	8,037	24,111	80,371	81,673	99,823	Bopop-110	99,823
291	26	44,787	5,935	17,805	59,351	62,728	76,668	Bopop-110	76,668
292	26	17,807	3,012	9,035	30,117	32,721	39,992	Bopop-90Max	32,721
293	26	29,610	3,603	10,808	36,028	36,915	45,118	Bopop-90Max	36,915
294	26	3,426	1,576	4,728	15,759	23,847	29,146	Bopop-90Max	23,847
295	26	19,034	3,411	10,233	34,110	38,547	47,113	Bopop-90Max	38,547
296	23	32,850	5,476	16,429	54,764	63,145	77,177	Bopop-90Max	63,145
297	25	49,683	5,357	16,070	53,567	55,443	67,764	Bopop-110	67,764
298	26	50,812	5,817	17,452	58,173	61,943	75,708	Bopop-110	75,708
299	26	34,768	4,904	14,711	49,035	51,972	63,521	Bopop-90Max	51,972
300	26	31,165	6,202	18,606	62,020	72,712	88,870	Bopop-90Max	72,712
301	20	2,193	418	1,254	4,180	4,837	5,912	Bopop-Target	4,180
302	21	2,909	16,108	48,323	161,078	166,854	203,933	Bopop-Target	161,078
303	15	39	1,558	4,674	15,581	22,461	27,452	Bopop-Target	15,581
304	23	8,450	7,898	23,694	78,979	95,317	116,499	Bopop-90Max	95,317
305	23	15,022	5,388	16,164	53,881	60,876	74,404	Bopop-90Max	60,876
306	23	43,591	6,248	18,743	62,478	65,651	80,240	Bopop-90Max	65,651

Table C-1: Growth Scenario 2, Infill/Urban Revitalization Emphasis - Population

Raz	Rtpz	Pop2000	Bopop_10	Bopop_30	Bopop_tgt	Bopop_90ma	Bopop_110	categories	Scen_pop
307	25	5,228	712	2,136	7,121	7,856	9,602	Bopop-90Max	7,856
308	25	54,384	5,658	16,973	56,576	57,339	70,081	Bopop-90Max	57,339
309	26	47,147	5,052	15,157	50,522	51,071	62,420	Bopop-110	62,420
310	29	49,301	5,510	16,529	55,098	55,737	68,123	Bopop-90Max	55,737
311	29	70,924	7,976	23,927	79,756	80,114	97,917	Bopop-90Max	80,114
312	29	14,196	4,465	13,396	44,652	44,795	54,749	Bopop-90Max	44,795
313	25	41,490	5,784	17,352	57,840	59,241	72,406	Bopop-90Max	59,241
314	25	34,671	3,919	11,757	39,189	40,569	49,584	Bopop-90Max	40,569
315	25	39,111	4,302	12,906	43,019	43,737	53,456	Bopop-90Max	43,737
316	29	30,117	3,979	11,938	39,794	40,778	49,840	Bopop-90Max	40,778
317	29	30,439	3,570	10,710	35,699	37,359	45,661	Bopop-90Max	37,359
318	29	25,356	5,911	17,733	59,109	63,354	77,433	Bopop-90Max	63,354
319	29	4,509	11,698	35,093	116,977	126,441	154,539	Bopop-90Max	126,441
320	29	1,065	372	1,115	3,715	4,317	5,276	Bopop-90Max	4,317
321	29	14,611	6,003	18,010	60,032	84,544	103,332	Bopop-Target	45,000
322	29	4,644	8,534	25,603	85,343	99,123	121,150	Bopop-90Max	99,123
323	21	186	35,600	106,801	356,002	385,030	470,592	Bopop-Target	356,002
324	22	2,699	1,097	3,292	10,972	19,253	23,531	Bopop-Target	10,972
325	29	26,031	5,739	17,217	57,390	60,811	74,325	Bopop-90Max	60,811
326	29	8,337	939	2,818	9,394	9,394	11,482	Bopop-90Max	9,394
327	29	2,798	2,957	8,870	29,565	34,449	42,104	Bopop-90Max	34,449
328	29	5,442	4,042	12,127	40,422	48,403	59,159	Bopop-90Max	48,403
329	29	2,293	5,697	17,092	56,974	63,929	78,135	Bopop-90Max	63,929
330	27	309	5,096	15,287	50,956	67,819	82,890	No Growth	309
331	27	2,080	13,107	39,321	131,070	199,309	243,600	Bopop-30	54,011
332	28	148	8,528	25,585	85,283	111,220	135,936	No Growth	148
333	6	1,201	38,143	114,428	381,425	504,157	616,192	No Growth	1,201
334	1	930	17,792	53,376	177,919	236,880	289,520	No Growth	930
335	1	326	2,004	6,012	20,039	26,598	32,509	No Growth	326
336	5	386	575	1,725	5,751	6,167	7,537	Bopop-10	575
337	13	82	216	647	2,157	2,567	3,137	No Growth	82
339	31	7,238	10,628	31,884	106,280	114,597	140,063	Bopop-Target	106,280
340	8	262	114,618	343,853	1,146,176	1,411,610	1,725,301	No Growth	262
341	2	78	47,875	143,626	478,752	633,115	773,807	No Growth	78
342	31	119	1,315	3,946	13,153	28,063	34,299	Bopop-Target	13,153
343	20	94	22,265	66,795	222,650	278,308	340,154	No Growth	94
344	4	0	4,824	14,473	48,243	74,889	91,531	Bopop-30	10,000
345	11	758	1,079	3,236	10,787	13,412	16,392	Bopop-Target	10,787
346	7	2,735	9,507	28,522	95,072	173,123	211,595	No Growth	2,735
347	2	563	3,140	9,420	31,399	60,172	73,544	No Growth	521
Scenario Total									8,500,000
Note: Scenario population values are based on the identified category reference. However, for the shaded entries planning judgement was applied to data in selected regional analysis zones (RAZ) to reflect specific conditions of each individual scenario.									
Source: URIS/BRW, January 2002.									

Table C-2: Growth Scenario 2, Infill/Urban Revitalization Emphasis - Employment

Raz	Rtpz	Emp2000	BoEmp_10	BoEmp_30	Empbo	BoEmp_110	Categories	Scen_Employ
201	3	3,530	2,183	6,548	21,825	24,008	BoEmp-30	6,548
202	4	22	2,968	8,903	29,676	32,644	BoEmp-30	8,903
203	4	209	184	552	1,840	2,024	BoEmp-30	552
204	3	296	1,514	4,543	15,143	16,657	BoEmp-30	4,543
205	4	407	7,936	23,809	79,362	87,298	BoEmp-30	23,809
206	4	1,149	3,184	9,552	31,840	35,024	BoEmp-30	9,552
207	4	1,546	557	1,672	5,574	6,131	BoEmp-30	1,672
208	4	1,805	331	993	3,311	3,642	BoEmp-30	993
209	11	1,318	330	989	3,298	3,628	BoEmp-30	989
210	11	485	1,237	3,710	12,367	13,604	BoEmp-30	3,710
211	3	0	3,781	11,342	37,807	41,588	BoEmp-30	11,342
212	3	190	4,006	12,017	40,056	44,062	BoEmp-30	12,017
213	9	0	4,403	13,210	44,032	48,435	BoEmp-Target	44,032
214	9	88	4,040	12,121	40,403	44,443	BoEmp-110	44,443
215	9	2,546	852	2,555	8,518	9,370	BoEmp-110	9,370
216	10	4	2,954	8,861	29,535	32,489	BoEmp-110	32,489
217	10	833	2,729	8,187	27,290	30,019	BoEmp-110	30,019
218	10	366	174	522	1,740	1,914	BoEmp-Target	1,740
219	10	512	298	893	2,976	3,274	BoEmp-Target	2,976
220	9	69	681	2,042	6,807	7,488	BoEmp-Target	6,807
221	9	4,031	2,679	8,036	26,785	29,464	BoEmp-30	8,036
222	17	11,079	1,940	5,821	19,404	21,344	BoEmp-110	21,344
223	10	5,604	1,994	5,982	19,940	21,934	BoEmp-110	21,934
224	18	18,016	2,030	6,090	20,299	22,329	BoEmp-110	22,329
225	10	18,626	10,262	30,786	102,621	112,883	BoEmp-110	112,883
226	18	20,044	2,567	7,700	25,667	28,234	BoEmp-110	28,234
227	10	6,050	2,681	8,044	26,813	29,494	BoEmp-110	29,494
228	10	717	3,665	10,995	36,650	40,315	BoEmp-110	40,315
229	11	4,769	1,293	3,878	12,928	14,221	BoEmp-30	3,878
230	11	4,016	3,789	11,366	37,887	41,676	BoEmp-Target	37,887
231	11	237	25	75	250	275	BoEmp-30	75
232	9	537	464	1,392	4,641	5,105	BoEmp-Target	4,641
233	9	609	4,317	12,950	43,167	47,484	BoEmp-Target	43,167
234	9	1,752	177	530	1,766	1,943	BoEmp-Target	1,766
235	9	1,019	3,547	10,642	35,473	39,020	BoEmp-110	39,020
236	9	1,395	312	937	3,123	3,435	BoEmp-110	3,435
237	9	10,294	4,253	12,758	42,527	46,780	BoEmp-110	46,780
238	17	9,921	2,327	6,980	23,267	25,594	BoEmp-110	25,594
239	17	6,672	3,158	9,474	31,581	34,739	BoEmp-110	34,739
240	17	12,275	1,780	5,339	17,797	19,577	BoEmp-110	19,577
241	18	10,383	1,466	4,397	14,658	16,124	BoEmp-110	16,124
242	18	7,842	997	2,990	9,966	10,963	BoEmp-110	10,963
243	18	45,638	4,958	14,873	49,578	54,536	BoEmp-110	54,536
244	18	18,800	2,016	6,048	20,160	22,176	BoEmp-110	22,176
245	18	14,453	1,678	5,034	16,781	18,459	BoEmp-110	18,459
246	18	19,774	2,487	7,462	24,873	27,360	BoEmp-110	27,360
247	11	28,437	3,530	10,589	35,295	38,825	BoEmp-110	38,825
248	11	14,682	2,811	8,432	28,106	30,917	BoEmp-Target	28,106
249	11	4,670	1,715	5,146	17,154	18,869	BoEmp-Target	17,154
250	11	3,824	894	2,682	8,939	9,833	BoEmp-Target	8,939
251	12	1,812	181	544	1,812	1,993	BoEmp-30	544
252	8	0	0	0	1	1	BoEmp-Target	2,000
253	8	163	1,443	4,328	14,425	15,868	BoEmp-target	14,425

Table C-2: Growth Scenario 2, Infill/Urban Revitalization Emphasis - Employment

Raz	Rtpz	Emp2000	BoEmp_10	BoEmp_30	Empbo	BoEmp_110	Categories	Scen_Employ
254	17	270	2,643	7,930	26,434	29,077	BoEmp-Target	26,434
255	17	1,007	4,187	12,562	41,874	46,061	BoEmp-Target	41,874
256	17	7,559	1,074	3,223	10,743	11,817	BoEmp-Target	10,743
257	17	5,835	6,732	20,197	67,324	74,056	BoEmp-110	74,056
258	17	31,918	3,959	11,876	39,585	43,544	BoEmp-110	43,544
259	16	18,467	1,969	5,908	19,692	21,661	BoEmp-110	30,000
260	16	26,614	2,677	8,030	26,765	29,442	BoEmp-110	29,442
261	16	35,286	3,557	10,672	35,572	39,129	BoEmp-110	39,129
262	19	6,219	1,640	4,919	16,396	18,036	BoEmp-Target	16,396
263	19	22,885	2,487	7,460	24,868	27,355	BoEmp-110	27,355
264	12	3,418	10,338	31,015	103,382	113,720	BoEmp-30	31,015
265	15	2,860	11,959	35,876	119,587	131,546	BoEmp-Target	100,000
266	15	1,535	334	1,002	3,339	3,673	BoEmp-Target	3,339
267	15	5,606	4,608	13,823	46,076	50,684	BoEmp-110	50,684
268	15	12,964	2,657	7,971	26,570	29,227	BoEmp-110	29,227
269	16	38,069	4,934	14,803	49,342	54,276	BoEmp-110	54,276
270	24	81,942	8,426	25,278	84,259	92,685	BoEmp-110	126,000
271	19	53,800	5,591	16,772	55,905	61,496	BoEmp-Target	55,905
272	19	52,520	5,857	17,570	58,566	64,423	BoEmp-110	64,423
273	15	3,212	6,359	19,076	63,585	69,944	BoEmp-110	69,944
274	15	8,168	4,681	14,042	46,807	51,488	BoEmp-110	51,488
275	24	69,664	7,781	23,342	77,805	85,586	BoEmp-110	116,700
276	19	22,755	3,036	9,108	30,359	33,395	BoEmp-Target	30,359
277	14	2,720	21,888	65,663	218,875	240,763	BoEmp-30	65,663
278	14	2,543	9,036	27,108	90,359	99,395	BoEmp-Target	90,359
279	14	956	7,411	22,233	74,111	81,522	BoEmp-30	22,233
280	15	3,742	3,543	10,628	35,427	38,970	BoEmp-110	45,000
281	15	1,894	1,658	4,975	16,583	18,241	BoEmp-Target	16,583
282	15	1,406	1,094	3,282	10,940	12,034	BoEmp-Target	10,940
283	23	2,436	4,660	13,980	46,601	51,261	BoEmp-Target	46,601
284	23	22,560	5,852	17,557	58,522	64,374	BoEmp-Target	58,522
285	23	16,648	2,562	7,686	25,619	28,181	BoEmp-110	28,181
286	23	16,356	2,157	6,470	21,566	23,723	BoEmp-110	23,723
287	23	56,924	7,312	21,936	73,119	80,431	BoEmp-110	109,500
288	25	70,019	9,216	27,647	92,155	101,371	BoEmp-110	124,090
289	26	29,274	3,875	11,625	38,751	42,626	BoEmp-Target	38,751
290	26	29,211	3,369	10,107	33,690	37,059	BoEmp-Target	33,690
291	26	7,327	1,962	5,885	19,615	21,577	BoEmp-Target	19,615
292	26	8,712	6,192	18,576	61,920	68,112	BoEmp-110	68,112
293	26	3,629	1,073	3,219	10,730	11,803	BoEmp-Target	10,730
294	26	268	326	979	3,264	3,590	BoEmp-Target	3,264
295	26	1,126	291	872	2,907	3,198	BoEmp-Target	2,907
296	23	46,134	5,508	16,523	55,077	60,585	BoEmp-110	60,585
297	25	47,149	5,109	15,326	51,086	56,195	BoEmp-110	56,195
298	26	7,466	1,169	3,507	11,690	12,859	BoEmp-Target	11,690
299	26	17,519	3,186	9,559	31,862	35,048	BoEmp-Target	31,862
300	26	1,057	2,271	6,814	22,712	24,983	BoEmp-110	24,983
301	20	167	233	698	2,327	2,560	BoEmp-30	698
302	21	103	2,297	6,890	22,966	25,263	BoEmp-30	6,890
303	15	0	87	260	865	952	BoEmp-30	260
304	23	859	1,744	5,233	17,442	19,186	BoEmp-Target	17,442
305	23	2,085	906	2,718	9,060	9,966	BoEmp-Target	9,060
306	23	11,290	1,941	5,822	19,405	21,346	BoEmp-110	21,346

Table C-2: Growth Scenario 2, Infill/Urban Revitalization Emphasis - Employment

Raz	Rtpz	Emp2000	BoEmp_10	BoEmp_30	Empbo	BoEmp_110	Categories	Scen_Employ
307	25	487	156	467	1,556	1,712	BoEmp-110	1,712
308	25	40,605	5,772	17,315	57,715	63,487	BoEmp-110	63,487
309	26	30,584	4,094	12,282	40,939	45,033	BoEmp-110	45,033
310	29	14,931	2,410	7,229	24,098	26,508	BoEmp-110	26,508
311	29	19,599	3,800	11,400	38,000	41,800	BoEmp-Target	38,000
312	29	1,097	2,202	6,605	22,015	24,217	BoEmp-Target	22,015
313	25	2,794	627	1,882	6,272	6,899	BoEmp-Target	6,272
314	25	11,549	1,892	5,675	18,915	20,807	BoEmp-110	20,807
315	25	21,359	5,817	17,451	58,170	63,987	BoEmp-110	63,987
316	29	10,039	1,917	5,750	19,168	21,085	BoEmp-110	21,085
317	29	3,817	700	2,099	6,997	7,697	BoEmp-110	18,000
318	29	1,262	4,875	14,624	48,746	53,621	BoEmp-Target	48,746
319	29	450	2,480	7,439	24,796	27,276	BoEmp-Target	24,796
320	29	696	2,543	7,628	25,427	27,970	BoEmp-110	27,970
321	29	2,246	7,165	21,496	71,652	78,817	BoEmp-110	78,817
322	29	3,682	11,657	34,970	116,568	128,225	BoEmp-110	128,225
323	21	103	1,785	5,355	17,851	19,636	BoEmp-30	5,355
324	22	3,563	6,676	20,028	66,759	73,435	BoEmp-30	20,028
325	29	7,383	2,982	8,945	29,817	32,799	BoEmp-Target	29,817
326	29	2,229	223	669	2,229	2,452	BoEmp-30	669
327	29	936	4,611	13,834	46,113	50,724	BoEmp-Target	40,421
328	29	974	1,084	3,251	10,838	11,922	BoEmp-30	3,251
329	29	522	501	1,502	5,008	5,509	BoEmp-30	1,502
330	27	30	3	9	30	33	BoEmp-10	3
331	27	820	9,941	29,824	99,412	109,353	BoEmp-30	29,824
332	28	7	1	2	7	8	BoEmp-10	1
333	6	4,445	555	1,665	5,550	6,105	BoEmp-10	555
334	1	128	13	38	128	141	BoEmp-10	13
335	1	8	1	2	8	9	BoEmp-10	1
336	5	65	159	477	1,590	1,749	BoEmp-10	159
337	13	62	24	72	240	264	BoEmp-10	24
339	31	1,511	660	1,979	6,598	7,258	BoEmp-30	1,979
340	8	0	52,345	157,034	523,446	575,791	BoEmp-10	52,345
341	2	0	29,089	87,267	290,889	319,978	BoEmp-10	29,089
342	31	64	6	19	64	70	BoEmp-10	6
343	20	1,138	114	341	1,138	1,252	BoEmp-10	114
344	4	28	3	8	28	31	BoEmp-30	8
345	11	15	17	50	167	184	BoEmp-30	50
346	7	673	6,272	18,815	62,715	68,987	BoEmp-10	6,272
347	2	7	1	3	10	11	BoEmp-10	1
Scenario Total								4,100,000
Note: Scenario Employment values are based on the identified category reference. However, planning judgement was applied to data in selected regional analysis zones (RAZ) to reflect specific conditions of each individual scenario.								
Source: BRW/URS, January 2002.								

APPENDIX D: GROWTH SCENARIO 3, ACTIVITY CENTER EMPHASIS

Figure D-1: Growth Scenario 3, Activity Center Emphasis – Population Allocation

Figure D-2: Growth Scenario 3, Activity Center Emphasis – Employment Allocation

Figure D-3: Growth Scenario 3, Activity Center Emphasis – Population Density

Figure D-4: Growth Scenario 3, Activity Center Emphasis – Employment Density

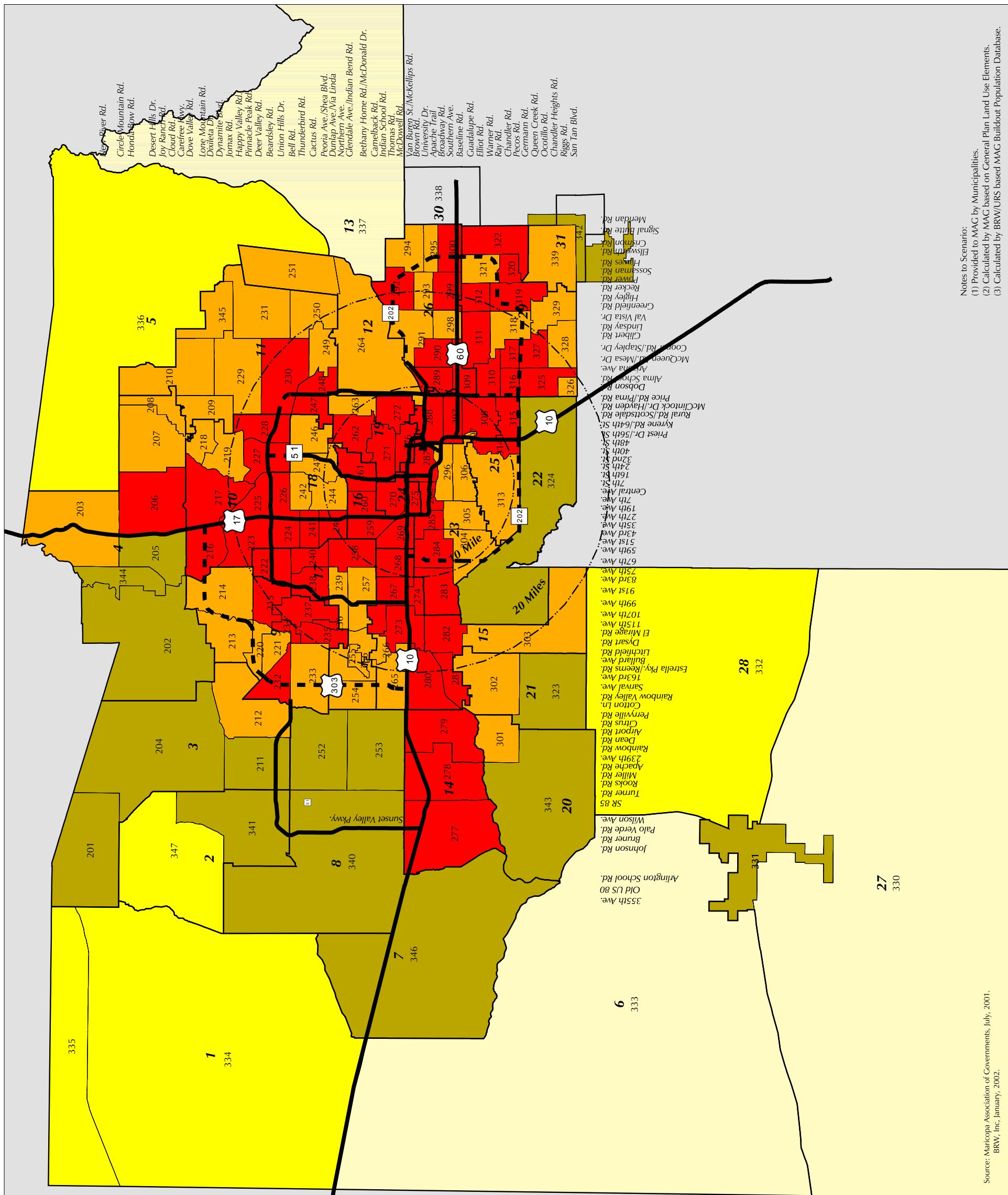
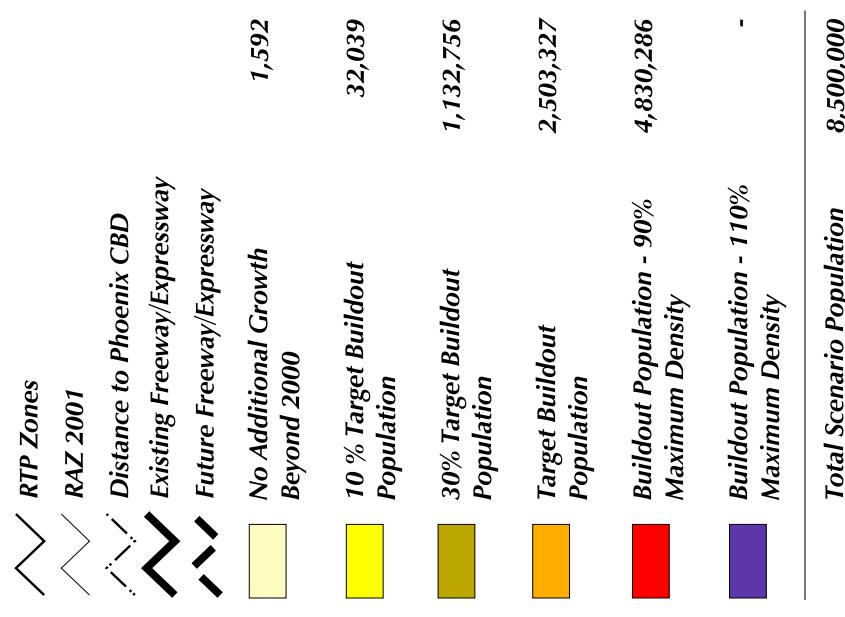
Table D-1: Growth Scenario 3, Activity Center Emphasis – Population

Table D-2: Growth Scenario 3, Activity Center Emphasis – Employment

MAG REGIONAL TRANSPORTATION PLAN

Figure D-1

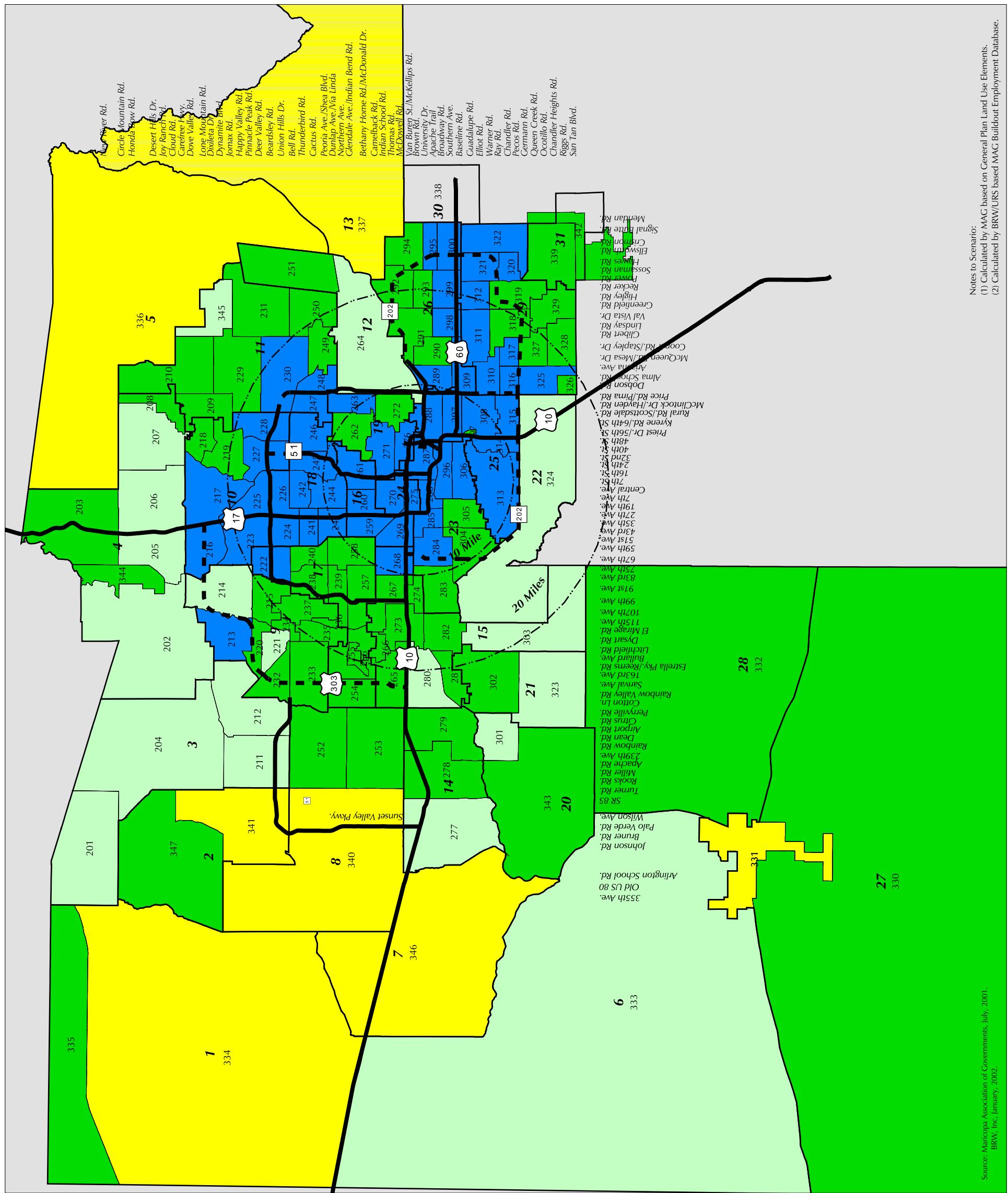
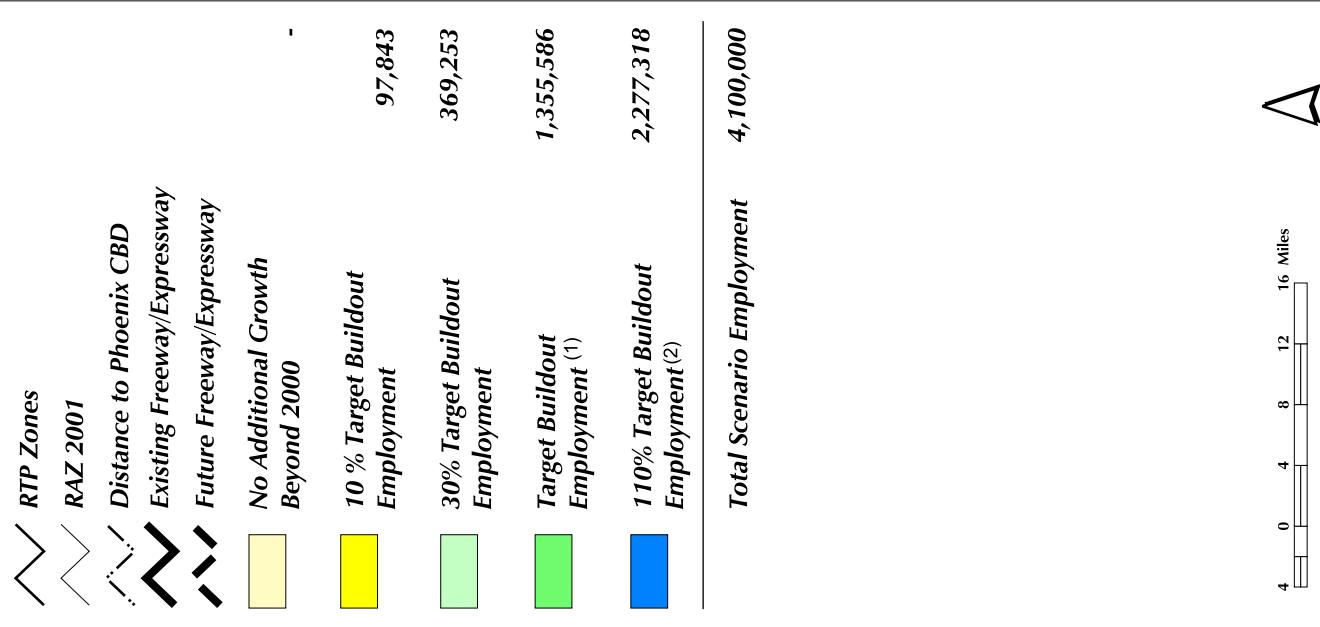
Growth Scenario 3, Activity Center Emphasis- Population Allocation



MAG REGIONAL TRANSPORTATION PLAN

Figure D-2

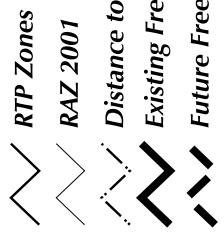
Growth Scenario 3, Activity Center Emphasis- Employment Allocation



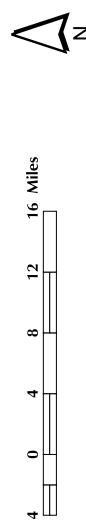
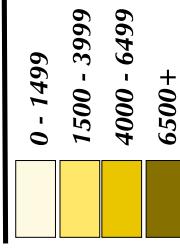
MAG REGIONAL TRANSPORTATION PLAN

Figure D-3

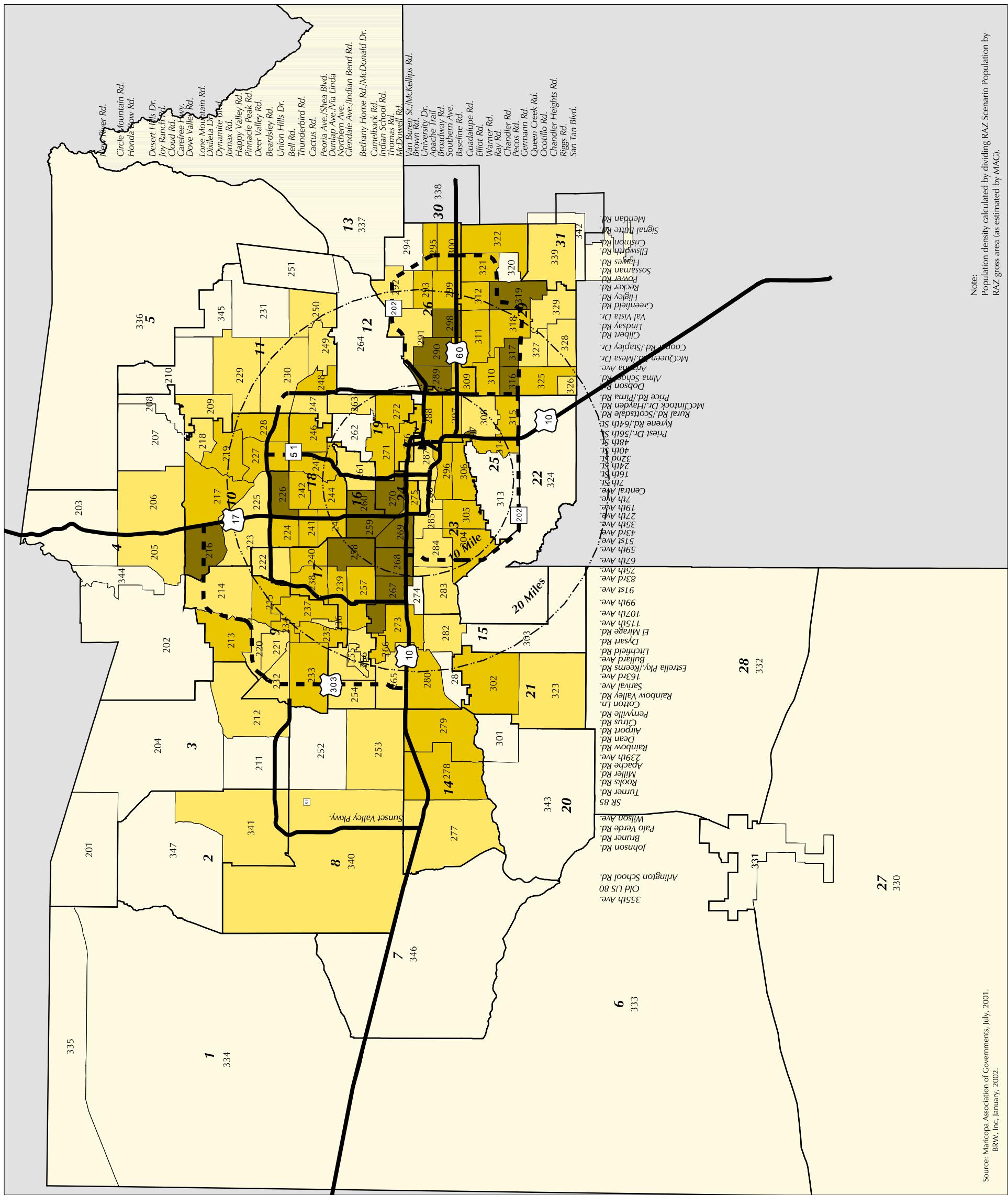
**Growth Scenario 3,
Activity Center Emphasis-
Population Density**



Population Density
(Persons per Square Mile)



N



Note:
Population density calculated by dividing RAZ Scenario Population by
RAZ gross area (as estimated by MAG).

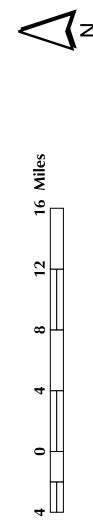
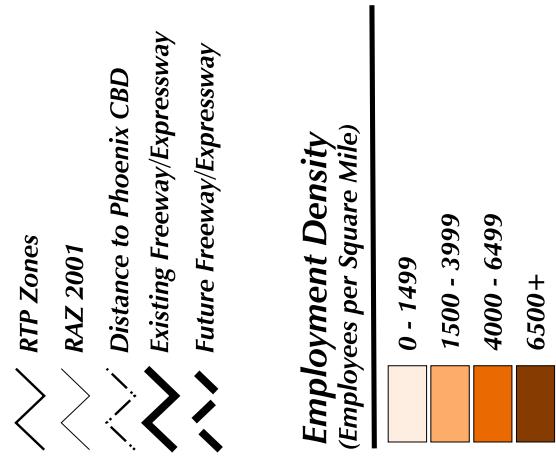
Source: Maricopa Association of Governments, July, 2001.
BRW, Inc., January, 2002.
v:/projects/MAC Regional Transportation Plan/GIS_Maps/Projects/MAC_RTP_alternatives_raz_pop_density.apr

01/16/02

MAG REGIONAL TRANSPORTATION PLAN

Figure D-4

Growth Scenario 3, Activity Center Emphasis- Employment Density



URS

Note: Employment density calculated by dividing RAZ Scenario Employment by RAZ gross area (as estimated by MAC).

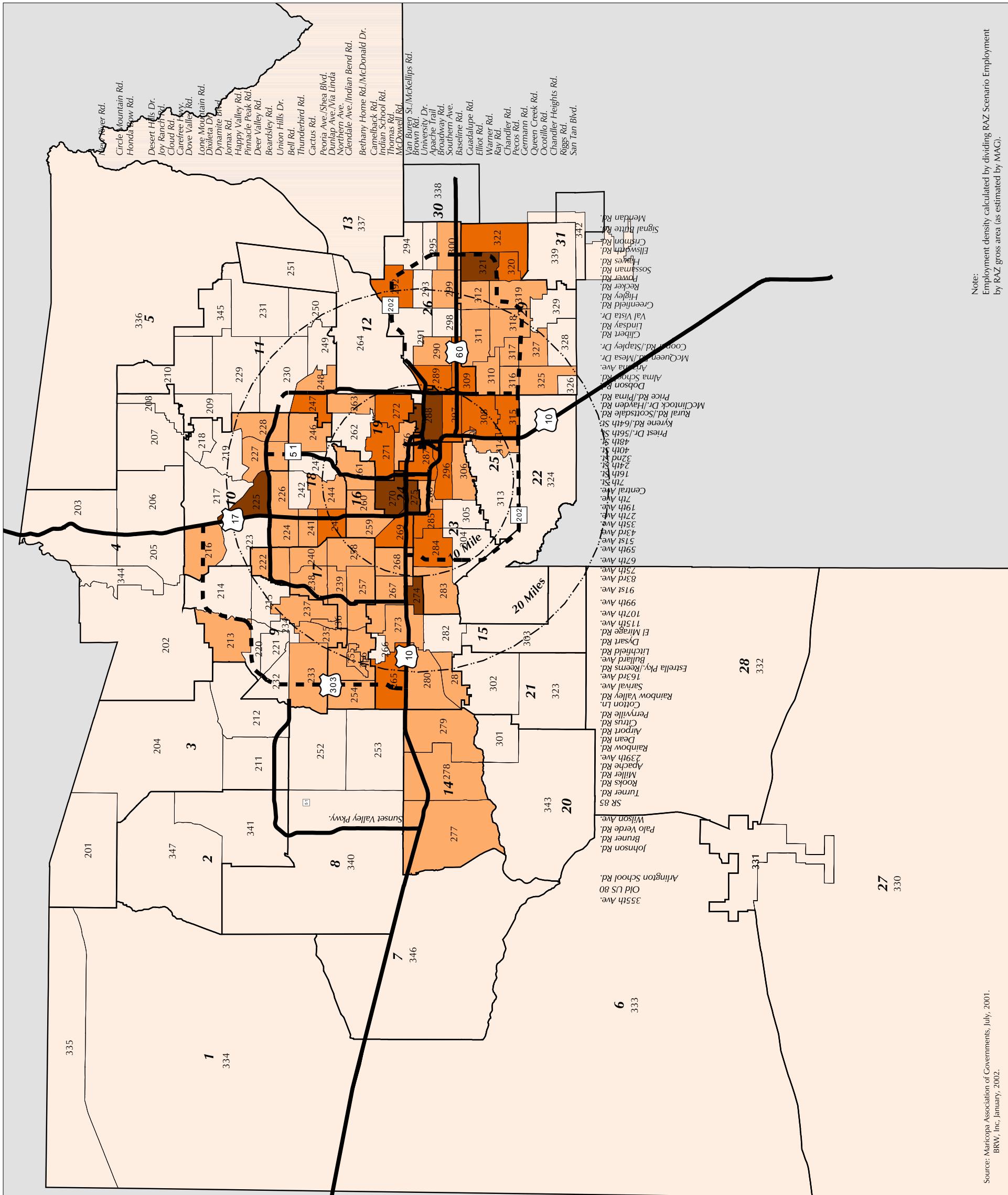


Table D-1: Growth Scenario 3, Activity Center Emphasis - Population

Raz	Rtpz	Pop2000	Bopop_10	Bopop_30	Bopop_tgt	Bopop_90ma	Bopop_110	Categories	Scen_pop
201	3	7,406	5,231	15,692	52,305	94,921	116,015	Bopop-30	15,692
202	4	248	12,447	37,341	124,470	179,559	219,461	Bopop-30	37,341
203	4	2,025	3,039	9,118	30,394	231,654	283,133	Bopop-Target	30,394
204	3	2,702	9,889	29,668	98,892	213,935	261,476	Bopop-30	29,668
205	4	1,785	19,666	58,998	196,659	257,810	315,101	Bopop-30	94,000
206	4	8,806	7,452	22,356	74,520	135,359	165,439	Bopop-90Max	135,359
207	4	3,812	1,557	4,670	15,568	92,126	112,598	Bopop-Target	15,568
208	4	2,927	606	1,817	6,056	11,645	14,233	Bopop-Target	6,056
209	11	6,889	2,554	7,661	25,538	28,586	34,938	Bopop-Target	25,538
210	11	1,589	5,501	16,502	55,005	66,174	80,879	Bopop-Target	55,005
211	3	314	9,746	29,239	97,463	126,691	154,845	Bopop-30	29,239
212	3	2,582	14,727	44,180	147,265	180,804	220,983	Bopop-Target	147,265
213	9	60	10,306	30,917	103,055	145,956	178,391	Bopop-Target	103,055
214	9	3,735	10,530	31,591	105,303	150,928	184,468	Bopop-Target	105,303
215	9	29,695	5,266	15,799	52,664	56,202	68,691	Bopop-90Max	56,202
216	10	4	10,880	32,640	108,800	147,701	180,523	Bopop-90Max	147,701
217	10	572	9,182	27,546	91,820	130,693	159,736	Bopop-90Max	130,693
218	10	8,940	1,867	5,602	18,673	21,557	26,347	Bopop-Target	18,673
219	10	10,656	7,763	23,288	77,626	88,841	108,583	Bopop-Target	77,626
220	9	5,287	1,916	5,749	19,163	24,420	29,847	Bopop-Target	19,163
221	9	21,114	3,339	10,017	33,391	41,307	50,486	Bopop-Target	33,391
222	17	46,516	5,507	16,520	55,066	55,869	68,284	Bopop-90Max	55,869
223	10	31,445	5,699	17,098	56,994	60,737	74,234	Bopop-90Max	60,737
224	18	46,796	5,146	15,439	51,463	52,102	63,680	Bopop-90Max	52,102
225	10	11,284	2,698	8,094	26,979	30,099	36,788	Bopop-90Max	30,099
226	18	62,241	7,385	22,155	73,850	77,335	94,521	Bopop-90Max	77,335
227	10	36,010	8,491	25,473	84,909	91,879	112,297	Bopop-90Max	91,879
228	10	9,152	8,677	26,030	86,767	101,466	124,014	Bopop-90Max	101,466
229	11	13,525	5,995	17,985	59,951	66,299	81,032	Bopop-Target	59,951
230	11	15,820	5,458	16,373	54,576	57,260	69,984	Bopop-90Max	57,260
231	11	1,385	142	427	1,424	1,424	1,740	Bopop-Target	1,424
232	9	15,424	5,308	15,925	53,083	55,280	67,564	Bopop-90Max	55,280
233	9	6,413	14,631	43,892	146,305	165,587	202,384	Bopop-Target	146,305
234	9	8,551	1,627	4,882	16,272	17,048	20,836	Bopop-90Max	17,048
235	9	7,609	5,196	15,588	51,961	54,454	66,555	Bopop-90Max	54,454
236	9	3,013	441	1,324	4,412	5,063	6,188	Bopop-90Max	5,063
237	9	38,471	5,426	16,279	54,262	64,782	79,178	Bopop-90Max	64,782
238	17	48,579	6,253	18,759	62,530	69,365	84,779	Bopop-90Max	69,365
239	17	29,906	4,787	14,361	47,869	56,288	68,796	Bopop-Target	47,869
240	17	42,638	4,656	13,968	46,561	47,446	57,990	Bopop-90Max	47,446
241	18	43,333	4,886	14,657	48,858	49,625	60,653	Bopop-90Max	49,625
242	18	28,872	3,550	10,650	35,500	37,117	45,365	Bopop-Target	35,500
243	18	57,913	6,014	18,043	60,144	61,338	74,969	Bopop-90Max	61,338
244	18	54,253	6,545	19,636	65,454	67,929	83,024	Bopop-Target	65,454
245	18	57,095	6,564	19,692	65,641	66,822	81,671	Bopop-Target	65,641
246	18	60,651	6,567	19,702	65,672	66,248	80,970	Bopop-Target	65,672
247	11	11,852	1,411	4,232	14,107	14,867	18,171	Bopop-90Max	14,867
248	11	36,311	3,932	11,797	39,323	40,422	49,405	Bopop-90Max	40,422
249	11	18,101	2,965	8,896	29,653	33,104	40,460	Bopop-Target	29,653
250	11	20,235	3,326	9,978	33,260	36,109	44,133	Bopop-Target	33,260
251	12	824	82	247	824	824	1,007	Bopop-Target	824
252	8	0	1,906	5,717	19,056	33,920	41,458	Bopop-30	5,717
253	8	1,935	13,229	39,686	132,288	165,959	202,839	Bopop-30	132,288

Table D-1: Growth Scenario 3, Activity Center Emphasis - Population

Raz	Rtpz	Pop2000	Bopop_10	Bopop_30	Bopop_tgt	Bopop_90ma	Bopop_110	Categories	Scen_pop
254	17	3,024	5,311	15,932	53,108	73,254	89,533	Bopop-Target	53,108
255	17	4,414	3,518	10,553	35,178	51,603	63,070	Bopop-Target	35,178
256	17	3,851	814	2,441	8,136	10,993	13,436	Bopop-Target	8,136
257	17	32,547	6,925	20,776	69,254	81,512	99,626	Bopop-Target	69,254
258	17	96,396	10,914	32,741	109,137	115,492	141,157	Bopop-90Max	115,492
259	16	72,532	7,780	23,341	77,802	79,226	96,832	Bopop-90Max	79,226
260	16	55,121	5,964	17,892	59,640	60,254	73,644	Bopop-90Max	60,254
261	16	31,459	3,289	9,867	32,890	33,254	40,644	Bopop-90Max	33,254
262	19	13,891	1,684	5,053	16,842	21,132	25,828	Bopop-90Max	21,132
263	19	34,189	3,506	10,519	35,064	35,462	43,342	Bopop-Target	35,064
264	12	6,402	680	2,041	6,804	9,346	11,423	Bopop-Target	6,804
265	15	6,442	4,917	14,752	49,173	50,500	61,722	Bopop-Target	49,173
266	15	3,813	2,573	7,719	25,731	27,765	33,935	Bopop-Target	25,731
267	15	56,712	10,013	30,040	100,132	117,922	144,127	Bopop-90Max	117,922
268	15	87,979	11,163	33,490	111,633	123,546	151,001	Bopop-90Max	123,546
269	16	67,048	7,009	21,027	70,091	71,195	87,016	Bopop-90Max	71,195
270	24	70,180	7,754	23,262	77,539	79,113	96,694	Bopop-90Max	79,113
271	19	62,456	6,587	19,760	65,867	66,588	81,385	Bopop-90Max	66,588
272	19	64,293	6,660	19,979	66,597	67,216	82,153	Bopop-90Max	67,216
273	15	24,608	8,158	24,473	81,577	88,979	108,752	Bopop-90Max	88,979
274	15	4,977	601	1,803	6,009	6,123	7,484	Bopop-90Max	6,123
275	24	27,917	3,170	9,509	31,697	32,237	39,401	Bopop-90Max	32,237
276	19	42,692	5,197	15,591	51,970	54,834	67,019	Bopop-90Max	54,834
277	14	1,724	15,207	45,621	152,070	263,619	322,201	Bopop-90Max	263,619
278	14	9,882	19,700	59,100	196,999	258,444	315,876	Bopop-90Max	258,444
279	14	2,579	17,652	52,957	176,522	230,353	281,543	Bopop-90Max	220,353
280	15	10,974	12,097	36,290	120,965	129,626	158,432	Bopop-90Max	129,626
281	15	160	1,122	3,367	11,224	11,254	13,755	Bopop-90Max	11,254
282	15	12,643	4,852	14,556	48,521	51,547	63,002	Bopop-90Max	51,547
283	23	2,065	5,987	17,961	59,871	64,919	79,345	Bopop-90Max	64,919
284	23	1,140	3,516	10,548	35,160	41,628	50,879	Bopop-90Max	41,628
285	23	18,249	1,932	5,796	19,321	19,440	23,760	Bopop-90Max	19,440
286	23	16,427	2,040	6,120	20,400	21,238	25,958	Bopop-90Max	21,238
287	23	25,419	3,743	11,229	37,429	40,378	49,351	Bopop-90Max	40,378
288	25	54,645	6,313	18,939	63,129	64,289	78,575	Bopop-90Max	64,289
289	26	60,856	6,619	19,856	66,187	68,887	84,195	Bopop-90Max	68,887
290	26	76,828	8,037	24,111	80,371	81,673	99,823	Bopop-90Max	81,673
291	26	44,787	5,935	17,805	59,351	62,728	76,668	Bopop-Target	59,351
292	26	17,807	3,012	9,035	30,117	32,721	39,992	Bopop-90Max	32,721
293	26	29,610	3,603	10,808	36,028	36,915	45,118	Bopop-Target	36,028
294	26	3,426	1,576	4,728	15,759	23,847	29,146	Bopop-Target	15,759
295	26	19,034	3,411	10,233	34,110	38,547	47,113	Bopop-Target	34,110
296	23	32,850	5,476	16,429	54,764	63,145	77,177	Bopop-Target	54,764
297	25	49,683	5,357	16,070	53,567	55,443	67,764	Bopop-90Max	55,443
298	26	50,812	5,817	17,452	58,173	61,943	75,708	Bopop-Target	58,173
299	26	34,768	4,904	14,711	49,035	51,972	63,521	Bopop-90Max	51,972
300	26	31,165	6,202	18,606	62,020	72,712	88,870	Bopop-90Max	72,712
301	20	2,193	418	1,254	4,180	4,837	5,912	Bopop-Target	4,180
302	21	2,909	16,108	48,323	161,078	166,854	203,933	Bopop-Target	161,078
303	15	39	1,558	4,674	15,581	22,461	27,452	Bopop-Target	15,581
304	23	8,450	7,898	23,694	78,979	95,317	116,499	Bopop-Target	78,979
305	23	15,022	5,388	16,164	53,881	60,876	74,404	Bopop-Target	53,881
306	23	43,591	6,248	18,743	62,478	65,651	80,240	Bopop-Target	62,478

Table D-1: Growth Scenario 3, Activity Center Emphasis - Population

Raz	Rtpz	Pop2000	Bopop_10	Bopop_30	Bopop_tgt	Bopop_90ma	Bopop_110	Categories	Scen_pop
307	25	5,228	712	2,136	7,121	7,856	9,602	Bopop-Target	7,121
308	25	54,384	5,658	16,973	56,576	57,339	70,081	Bopop-90Max	57,339
309	26	47,147	5,052	15,157	50,522	51,071	62,420	Bopop-90Max	51,071
310	29	49,301	5,510	16,529	55,098	55,737	68,123	Bopop-90Max	55,737
311	29	70,924	7,976	23,927	79,756	80,114	97,917	Bopop-90Max	80,114
312	29	14,196	4,465	13,396	44,652	44,795	54,749	Bopop-90Max	44,795
313	25	41,490	5,784	17,352	57,840	59,241	72,406	Bopop-Target	57,840
314	25	34,671	3,919	11,757	39,189	40,569	49,584	Bopop-90Max	40,569
315	25	39,111	4,302	12,906	43,019	43,737	53,456	Bopop-90Max	43,737
316	29	30,117	3,979	11,938	39,794	40,778	49,840	Bopop-90Max	40,778
317	29	30,439	3,570	10,710	35,699	37,359	45,661	Bopop-90Max	37,359
318	29	25,356	5,911	17,733	59,109	63,354	77,433	Bopop-Target	59,109
319	29	4,509	11,698	35,093	116,977	126,441	154,539	Bopop-90Max	126,441
320	29	1,065	372	1,115	3,715	4,317	5,276	Bopop-90Max	4,317
321	29	14,611	6,003	18,010	60,032	84,544	103,332	Bopop-Target	60,000
322	29	4,644	8,534	25,603	85,343	99,123	121,150	Bopop-90Max	99,123
323	21	186	35,600	106,801	356,002	385,030	470,592	Bopop-30	106,801
324	22	2,699	1,097	3,292	10,972	19,253	23,531	Bopop-30	3,292
325	29	26,031	5,739	17,217	57,390	60,811	74,325	Bopop-90Max	60,811
326	29	8,337	939	2,818	9,394	9,394	11,482	Bopop-Target	9,394
327	29	2,798	2,957	8,870	29,565	34,449	42,104	Bopop-90Max	34,449
328	29	5,442	4,042	12,127	40,422	48,403	59,159	Bopop-Target	40,422
329	29	2,293	5,697	17,092	56,974	63,929	78,135	Bopop-Target	56,974
330	27	309	5,096	15,287	50,956	67,819	82,890	No Growth	309
331	27	2,080	13,107	39,321	131,070	199,309	243,600	Bopop-30	39,321
332	28	148	8,528	25,585	85,283	111,220	135,936	Bopop-10	8,528
333	6	1,201	38,143	114,428	381,425	504,157	616,192	No Growth	1,201
334	1	930	17,792	53,376	177,919	236,880	289,520	Bopop-10	17,792
335	1	326	2,004	6,012	20,039	26,598	32,509	Bopop-10	2,004
336	5	386	575	1,725	5,751	6,167	7,537	Bopop-10	575
337	13	82	216	647	2,157	2,567	3,137	No Growth	82
339	31	7,238	10,628	31,884	106,280	114,597	140,063	Bopop-Target	106,280
340	8	262	114,618	343,853	1,146,176	1,411,610	1,725,301	Bopop-30	343,853
341	2	78	47,875	143,626	478,752	633,115	773,807	Bopop-30	181,808
342	31	119	1,315	3,946	13,153	28,063	34,299	Bopop-30	3,946
343	20	94	22,265	66,795	222,650	278,308	340,154	Bopop-30	66,795
344	4	0	4,824	14,473	48,243	74,889	91,531	Bopop-30	14,473
345	11	758	1,079	3,236	10,787	13,412	16,392	Bopop-Target	10,787
346	7	2,735	9,507	28,522	95,072	173,123	211,595	Bopop-30	28,522
347	2	563	3,140	9,420	31,399	60,172	73,544	Bopop-10	3,140
Scenario Total									8,500,000
Note: Scenario population values are based on the identified category reference. However, for the shaded entries planning judgement was applied to data in selected regional analysis zones (RAZ) to reflect specific conditions of each individual scenario.									
Source: URSP/BRW, January 2002.									

Table D-2: Growth Scenario 3, Activity Center Emphasis - Employment

Raz	Rtpz	Emp2000	BoEmp_10	BoEmp_30	Empbo	BoEmp_110	Categories	Scen_Emp
201	3	3,530	2,183	6,548	21,825	24,008	BoEmp-30	6,548
202	4	22	2,968	8,903	29,676	32,644	BoEmp-30	8,903
203	4	209	184	552	1,840	2,024	BoEmp-Target	1,840
204	3	296	1,514	4,543	15,143	16,657	BoEmp-30	4,543
205	4	407	7,936	23,809	79,362	87,298	BoEmp-30	40,000
206	4	1,149	3,184	9,552	31,840	35,024	BoEmp-30	15,000
207	4	1,546	557	1,672	5,574	6,131	BoEmp-30	1,672
208	4	1,805	331	993	3,311	3,642	BoEmp-Target	3,311
209	11	1,318	330	989	3,298	3,628	BoEmp-Target	3,298
210	11	485	1,237	3,710	12,367	13,604	BoEmp-Target	12,367
211	3	0	3,781	11,342	37,807	41,588	BoEmp-30	11,342
212	3	190	4,006	12,017	40,056	44,062	BoEmp-30	12,017
213	9	0	4,403	13,210	44,032	48,435	BoEmp-110	48,435
214	9	88	4,040	12,121	40,403	44,443	BoEmp-30	12,121
215	9	2,546	852	2,555	8,518	9,370	BoEmp-Target	8,518
216	10	4	2,954	8,861	29,535	32,489	BoEmp-110	32,489
217	10	833	2,729	8,187	27,290	30,019	BoEmp-110	30,019
218	10	366	174	522	1,740	1,914	BoEmp-Target	1,740
219	10	512	298	893	2,976	3,274	BoEmp-Target	2,976
220	9	69	681	2,042	6,807	7,488	BoEmp-Target	6,807
221	9	4,031	2,679	8,036	26,785	29,464	BoEmp-30	8,036
222	17	11,079	1,940	5,821	19,404	21,344	BoEmp-110	21,344
223	10	5,604	1,994	5,982	19,940	21,934	BoEmp-110	21,934
224	18	18,016	2,030	6,090	20,299	22,329	BoEmp-110	22,329
225	10	18,626	10,262	30,786	102,621	112,883	BoEmp-110	112,883
226	18	20,044	2,567	7,700	25,667	28,234	BoEmp-110	28,234
227	10	6,050	2,681	8,044	26,813	29,494	BoEmp-110	29,494
228	10	717	3,665	10,995	36,650	40,315	BoEmp-110	40,315
229	11	4,769	1,293	3,878	12,928	14,221	BoEmp-Target	12,928
230	11	4,016	3,789	11,366	37,887	41,676	BoEmp-110	41,676
231	11	237	25	75	250	275	BoEmp-Target	250
232	9	537	464	1,392	4,641	5,105	BoEmp-Target	4,641
233	9	609	4,317	12,950	43,167	47,484	BoEmp-Target	43,167
234	9	1,752	177	530	1,766	1,943	BoEmp-Target	1,766
235	9	1,019	3,547	10,642	35,473	39,020	BoEmp-Target	35,473
236	9	1,395	312	937	3,123	3,435	BoEmp-Target	3,123
237	9	10,294	4,253	12,758	42,527	46,780	BoEmp-Target	42,527
238	17	9,921	2,327	6,980	23,267	25,594	BoEmp-Target	23,267
239	17	6,672	3,158	9,474	31,581	34,739	BoEmp-Target	31,581
240	17	12,275	1,780	5,339	17,797	19,577	BoEmp-Target	17,797
241	18	10,383	1,466	4,397	14,658	16,124	BoEmp-110	16,124
242	18	7,842	997	2,990	9,966	10,963	BoEmp-110	10,963
243	18	45,638	4,958	14,873	49,578	54,536	BoEmp-110	54,536
244	18	18,800	2,016	6,048	20,160	22,176	BoEmp-110	22,176
245	18	14,453	1,678	5,034	16,781	18,459	BoEmp-110	18,459
246	18	19,774	2,487	7,462	24,873	27,360	BoEmp-110	27,360
247	11	28,437	3,530	10,589	35,295	38,825	BoEmp-110	38,825
248	11	14,682	2,811	8,432	28,106	30,917	BoEmp-110	30,917
249	11	4,670	1,715	5,146	17,154	18,869	BoEmp-Target	17,154
250	11	3,824	894	2,682	8,939	9,833	BoEmp-Target	8,939
251	12	1,812	181	544	1,812	1,993	BoEmp-Target	1,812
252	8	0	0	0	1	1	BoEmp-Target	1,703
253	8	163	1,443	4,328	14,425	15,868	BoEmp-Target	14,425

Table D-2: Growth Scenario 3, Activity Center Emphasis - Employment

Raz	Rtpz	Emp2000	BoEmp_10	BoEmp_30	Empbo	BoEmp_110	Categories	Scen_Emp
254	17	270	2,643	7,930	26,434	29,077	BoEmp-Target	26,434
255	17	1,007	4,187	12,562	41,874	46,061	BoEmp-Target	41,874
256	17	7,559	1,074	3,223	10,743	11,817	BoEmp-Target	10,743
257	17	5,835	6,732	20,197	67,324	74,056	BoEmp-Target	67,324
258	17	31,918	3,959	11,876	39,585	43,544	BoEmp-Target	39,585
259	16	18,467	1,969	5,908	19,692	21,661	BoEmp-110	21,661
260	16	26,614	2,677	8,030	26,765	29,442	BoEmp-110	29,442
261	16	35,286	3,557	10,672	35,572	39,129	BoEmp-110	39,129
262	19	6,219	1,640	4,919	16,396	18,036	BoEmp-Target	16,396
263	19	22,885	2,487	7,460	24,868	27,355	BoEmp-110	27,355
264	12	3,418	10,338	31,015	103,382	113,720	BoEmp-30	31,015
265	15	2,860	11,959	35,876	119,587	131,546	BoEmp-Target	80,000
266	15	1,535	334	1,002	3,339	3,673	BoEmp-Target	3,339
267	15	5,606	4,608	13,823	46,076	50,684	BoEmp-Target	46,076
268	15	12,964	2,657	7,971	26,570	29,227	BoEmp-110	29,227
269	16	38,069	4,934	14,803	49,342	54,276	BoEmp-110	54,276
270	24	81,942	8,426	25,278	84,259	92,685	BoEmp-110	92,685
271	19	53,800	5,591	16,772	55,905	61,496	BoEmp-110	61,496
272	19	52,520	5,857	17,570	58,566	64,423	BoEmp-Target	58,566
273	15	3,212	6,359	19,076	63,585	69,944	BoEmp-Target	63,585
274	15	8,168	4,681	14,042	46,807	51,488	BoEmp-Target	46,807
275	24	69,664	7,781	23,342	77,805	85,586	BoEmp-110	85,586
276	19	22,755	3,036	9,108	30,359	33,395	BoEmp-110	33,395
277	14	2,720	21,888	65,663	218,875	240,763	BoEmp-30	100,000
278	14	2,543	9,036	27,108	90,359	99,395	BoEmp-Target	90,359
279	14	956	7,411	22,233	74,111	81,522	BoEmp-Target	74,111
280	15	3,742	3,543	10,628	35,427	38,970	BoEmp-30	90,000
281	15	1,894	1,658	4,975	16,583	18,241	BoEmp-Target	16,583
282	15	1,406	1,094	3,282	10,940	12,034	BoEmp-Target	10,940
283	23	2,436	4,660	13,980	46,601	51,261	BoEmp-Target	46,601
284	23	22,560	5,852	17,557	58,522	64,374	BoEmp-110	64,374
285	23	16,648	2,562	7,686	25,619	28,181	BoEmp-110	28,181
286	23	16,356	2,157	6,470	21,566	23,723	BoEmp-110	23,723
287	23	56,924	7,312	21,936	73,119	80,431	BoEmp-110	80,431
288	25	70,019	9,216	27,647	92,155	101,371	BoEmp-110	101,371
289	26	29,274	3,875	11,625	38,751	42,626	BoEmp-110	42,626
290	26	29,211	3,369	10,107	33,690	37,059	BoEmp-Target	33,690
291	26	7,327	1,962	5,885	19,615	21,577	BoEmp-Target	19,615
292	26	8,712	6,192	18,576	61,920	68,112	BoEmp-Target	61,920
293	26	3,629	1,073	3,219	10,730	11,803	BoEmp-Target	10,730
294	26	268	326	979	3,264	3,590	BoEmp-Target	3,264
295	26	1,126	291	872	2,907	3,198	BoEmp-110	3,198
296	23	46,134	5,508	16,523	55,077	60,585	BoEmp-110	60,585
297	25	47,149	5,109	15,326	51,086	56,195	BoEmp-110	56,195
298	26	7,466	1,169	3,507	11,690	12,859	BoEmp-110	12,859
299	26	17,519	3,186	9,559	31,862	35,048	BoEmp-110	35,048
300	26	1,057	2,271	6,814	22,712	24,983	BoEmp-110	24,983
301	20	167	233	698	2,327	2,560	BoEmp-30	698
302	21	103	2,297	6,890	22,966	25,263	BoEmp-Target	22,966
303	15	0	87	260	865	952	BoEmp-30	260
304	23	859	1,744	5,233	17,442	19,186	BoEmp-Target	17,442
305	23	2,085	906	2,718	9,060	9,966	BoEmp-Target	9,060
306	23	11,290	1,941	5,822	19,405	21,346	BoEmp-110	21,346

Table D-2: Growth Scenario 3, Activity Center Emphasis - Employment

Raz	Rtpz	Emp2000	BoEmp_10	BoEmp_30	Empbo	BoEmp_110	Categories	Scen_Emp
307	25	487	156	467	1,556	1,712	BoEmp-Target	1,556
308	25	40,605	5,772	17,315	57,715	63,487	BoEmp-110	63,487
309	26	30,584	4,094	12,282	40,939	45,033	BoEmp-110	45,033
310	29	14,931	2,410	7,229	24,098	26,508	BoEmp-110	26,508
311	29	19,599	3,800	11,400	38,000	41,800	BoEmp-110	41,800
312	29	1,097	2,202	6,605	22,015	24,217	BoEmp-110	24,217
313	25	2,794	627	1,882	6,272	6,899	BoEmp-110	6,899
314	25	11,549	1,892	5,675	18,915	20,807	BoEmp-110	20,807
315	25	21,359	5,817	17,451	58,170	63,987	BoEmp-110	63,987
316	29	10,039	1,917	5,750	19,168	21,085	BoEmp-110	21,085
317	29	3,817	700	2,099	6,997	7,697	BoEmp-110	18,000
318	29	1,262	4,875	14,624	48,746	53,621	BoEmp-Target	48,746
319	29	450	2,480	7,439	24,796	27,276	BoEmp-Target	24,796
320	29	696	2,543	7,628	25,427	27,970	BoEmp-110	27,970
321	29	2,246	7,165	21,496	71,652	78,817	BoEmp-110	78,817
322	29	3,682	11,657	34,970	116,568	128,225	BoEmp-110	128,225
323	21	103	1,785	5,355	17,851	19,636	BoEmp-30	5,355
324	22	3,563	6,676	20,028	66,759	73,435	BoEmp-30	20,028
325	29	7,383	2,982	8,945	29,817	32,799	BoEmp-110	32,799
326	29	2,229	223	669	2,229	2,452	BoEmp-Target	2,229
327	29	936	4,611	13,834	46,113	50,724	BoEmp-Target	35,110
328	29	974	1,084	3,251	10,838	11,922	BoEmp-Target	10,838
329	29	522	501	1,502	5,008	5,509	BoEmp-Target	5,008
330	27	30	3	9	30	33	BoEmp-Target	30
331	27	820	9,941	29,824	99,412	109,353	BoEmp-10	9,941
332	28	7	1	2	7	8	BoEmp-Target	7
333	6	4,445	555	1,665	5,550	6,105	BoEmp-30	1,665
334	1	128	13	38	128	141	BoEmp-10	13
335	1	8	1	2	8	9	BoEmp-Target	8
336	5	65	159	477	1,590	1,749	BoEmp-10	159
337	13	62	24	72	240	264	BoEmp-10	24
339	31	1,511	660	1,979	6,598	7,258	BoEmp-Target	6,598
340	8	0	52,345	157,034	523,446	575,791	BoEmp-10	52,345
341	2	0	29,089	87,267	290,889	319,978	BoEmp-10	29,089
342	31	64	6	19	64	70	BoEmp-Target	64
343	20	1,138	114	341	1,138	1,252	BoEmp-Target	1,138
344	4	28	3	8	28	31	BoEmp-Target	28
345	11	15	17	50	167	184	BoEmp-30	50
346	7	673	6,272	18,815	62,715	68,987	BoEmp-10	6,272
347	2	7	1	3	10	11	BoEmp-Target	10
Scenario Total								4,100,000
Note: Scenario employment values are based on the identified category reference. However, for the shaded entries planning judgement was applied to data in selected regional analysis zones (RAZ) to reflect specific conditions of each individual scenario.								
Source: BRW/URS, January 2002.								

APPENDIX E: GROWTH SCENARIO 4, SUBURBAN FRINGE GROWTH EMPHASIS

Figure E-1: Growth Scenario 4, Suburban Fringe Emphasis – Population Allocation

Figure E-2: Growth Scenario 4, Suburban Fringe Emphasis – Employment Allocation

Figure E-3: Growth Scenario 4, Suburban Fringe Emphasis – Population Density

Figure E-4: Growth Scenario 4, Suburban Fringe Emphasis – Employment Density

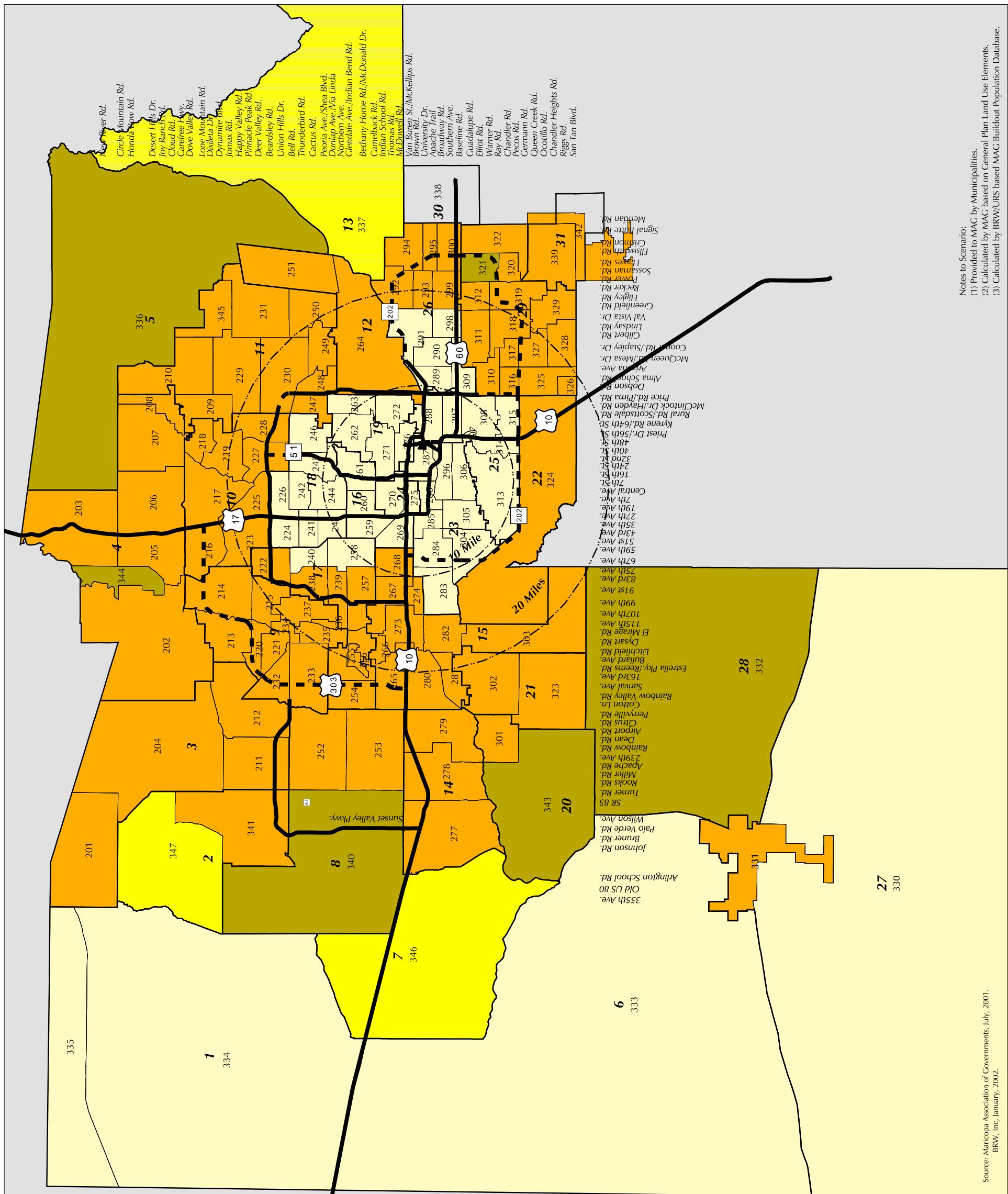
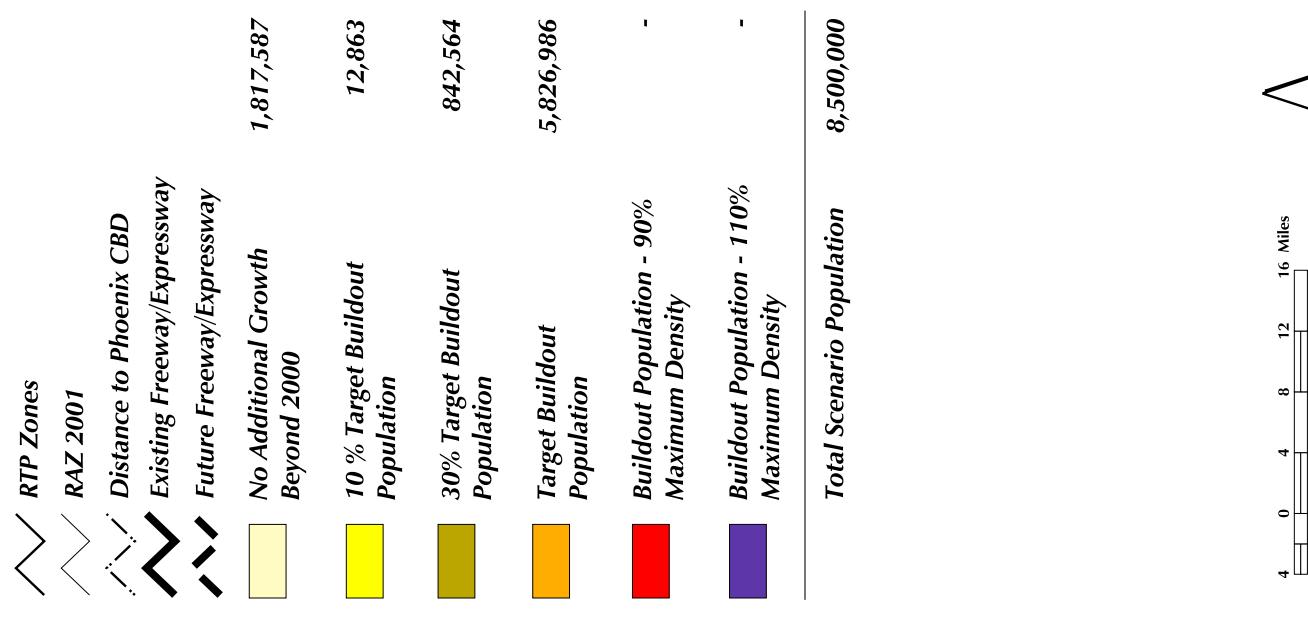
Table E-1: Growth Scenario 4, Suburban Fringe Emphasis – Population

Table E-2: Growth Scenario 4, Suburban Fringe Emphasis – Employment

MAG REGIONAL TRANSPORTATION PLAN

Figure E-1

Growth Scenario 4, Suburban Fringe Emphasis- Population Allocation



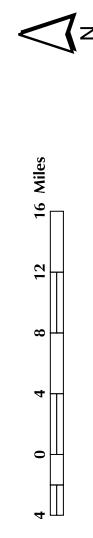
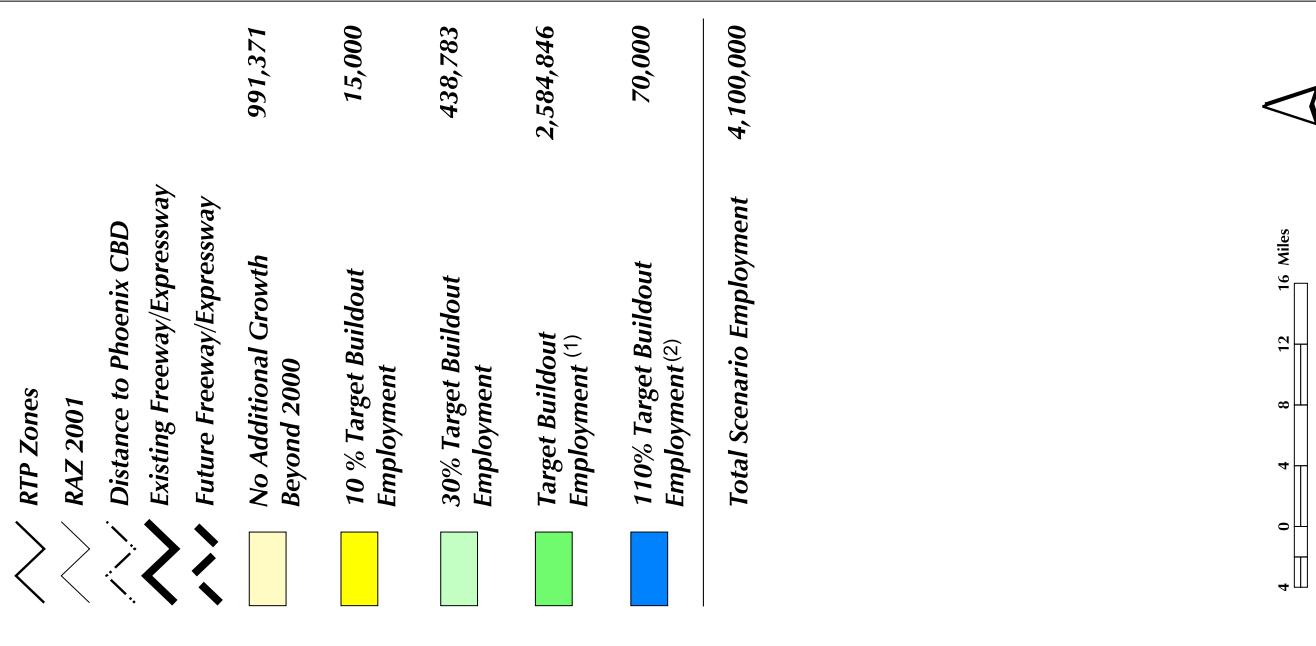
Notes to Scenario:
(1) Provided to MAG by Municipalities.
(2) Calculated by MAG based on General Plan Land Use Elements.
(3) Calculated by BRW/URS based MAC Buildout Population Database.

Source: Maricopa Association of Governments, July, 2001.
BRW, Inc., January, 2002.
v:/projects/MAG Regional Transportation Plan/GIS_Maps/Projects/MAG_RTP_alternatives_raz_pop.apr
01/16/02

MAG REGIONAL TRANSPORTATION PLAN

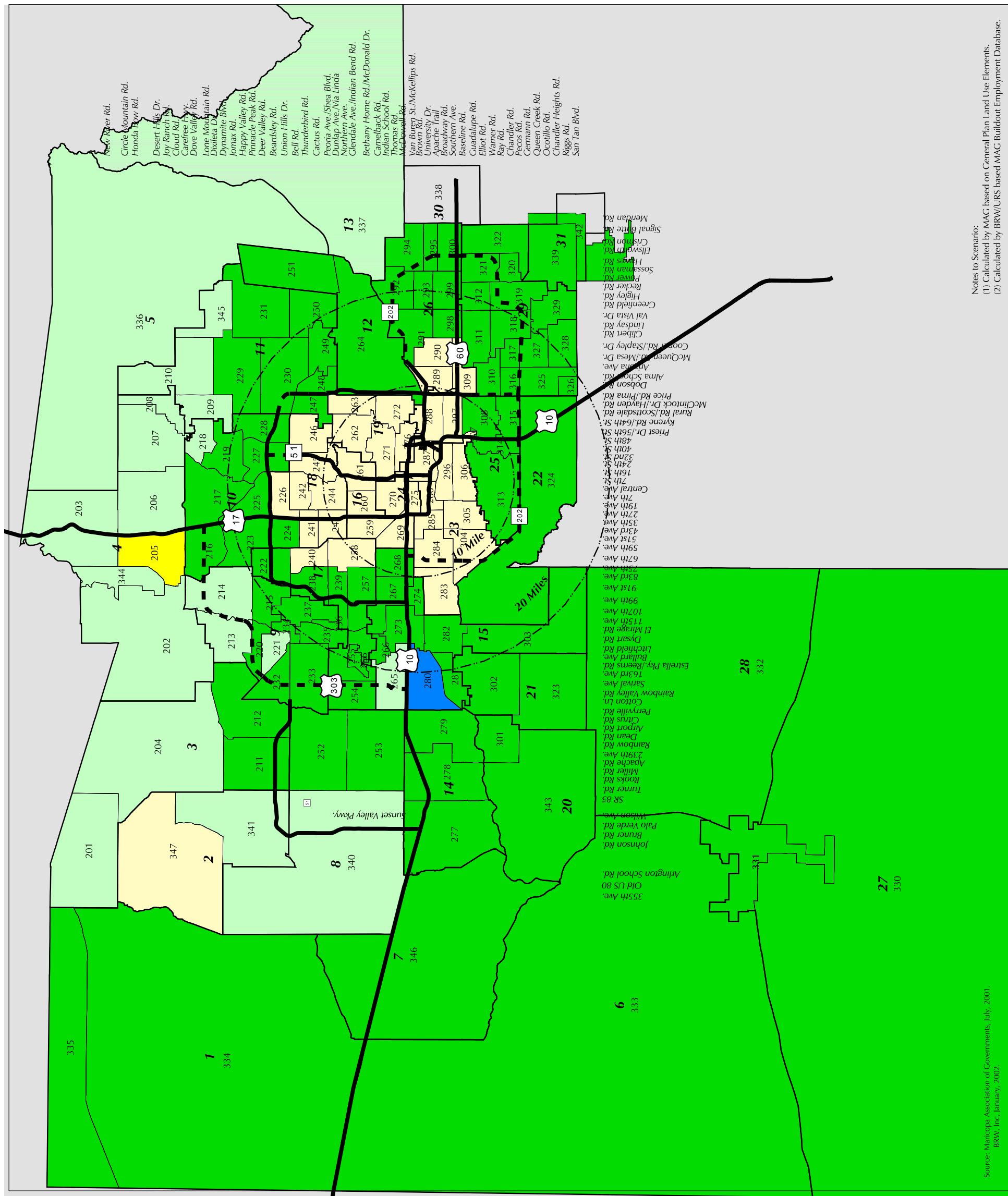
Figure E-2

Growth Scenario 4, Suburban Fringe Emphasis- Employment Allocation



URS

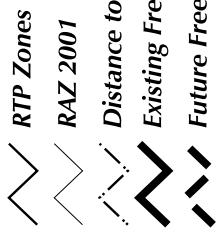
Notes to Scenario:
 (1) Calculated by MAC based on General Plan Land Use Elements.
 (2) Calculated by BRW/URS based MAC Buildout Employment Database.



MAG REGIONAL TRANSPORTATION PLAN

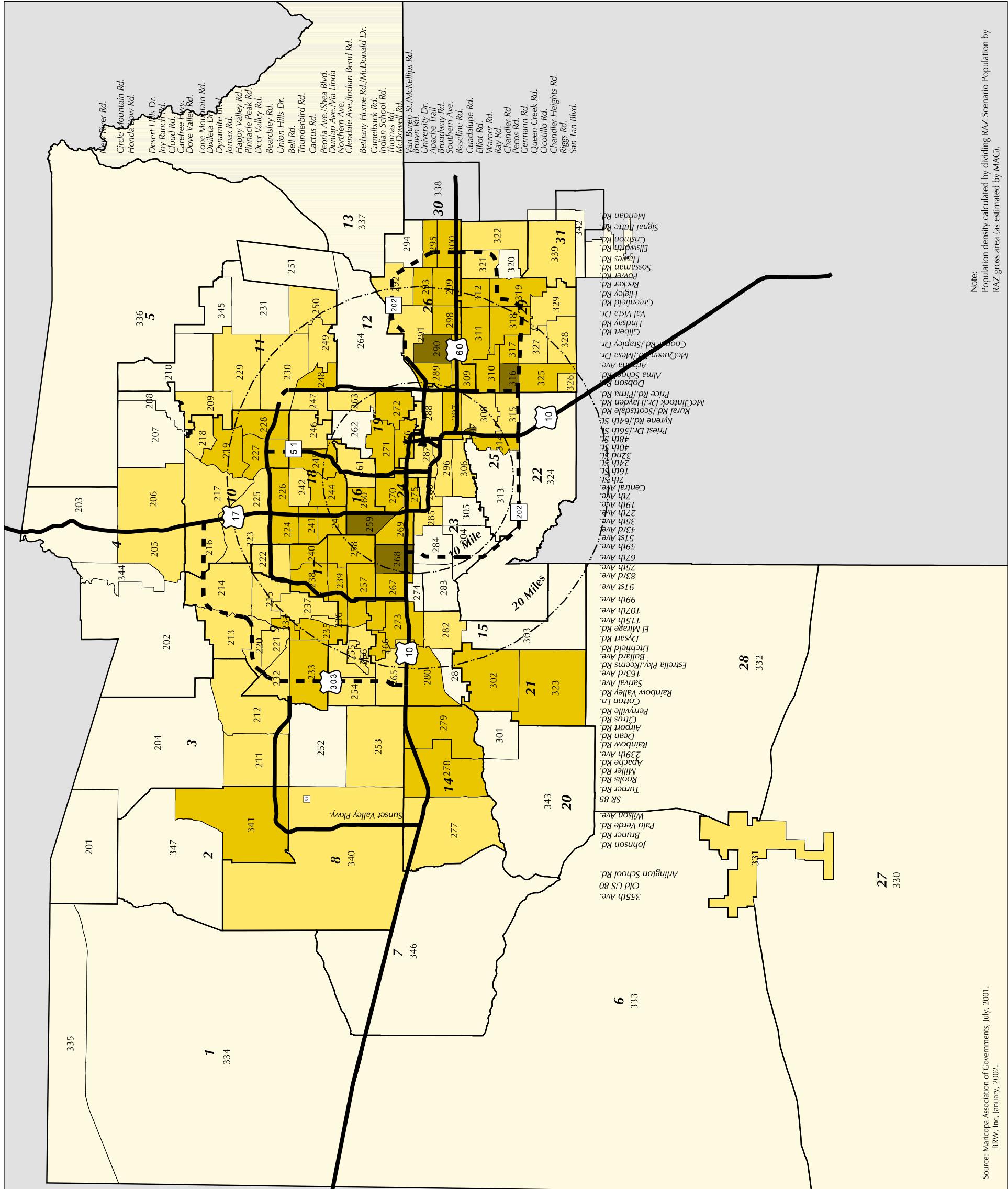
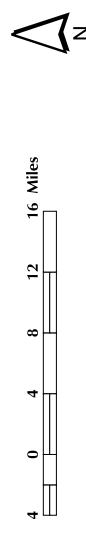
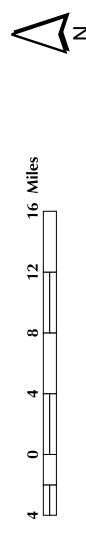
Figure E-3

Growth Scenario 4, Suburban Fringe Emphasis- Population Density



Population Density (Persons per Square Mile)

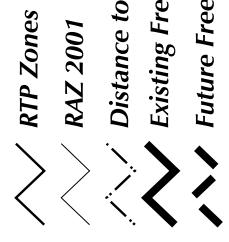
0 - 1499
1500 - 3999
4000 - 6499
6500+



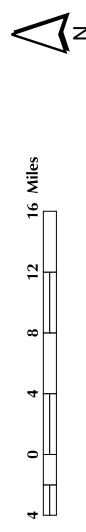
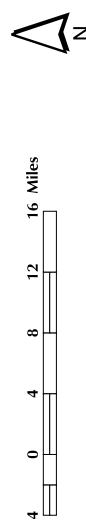
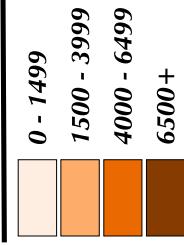
MAG REGIONAL TRANSPORTATION PLAN

Figure E-4

Growth Scenario 4, Suburban Fringe Emphasis- Employment Density



Employment Density (Employees per Square Mile)



URS

Note: Employment density calculated by dividing RAZ Scenario Employment by RAZ gross area (as estimated by MAC).

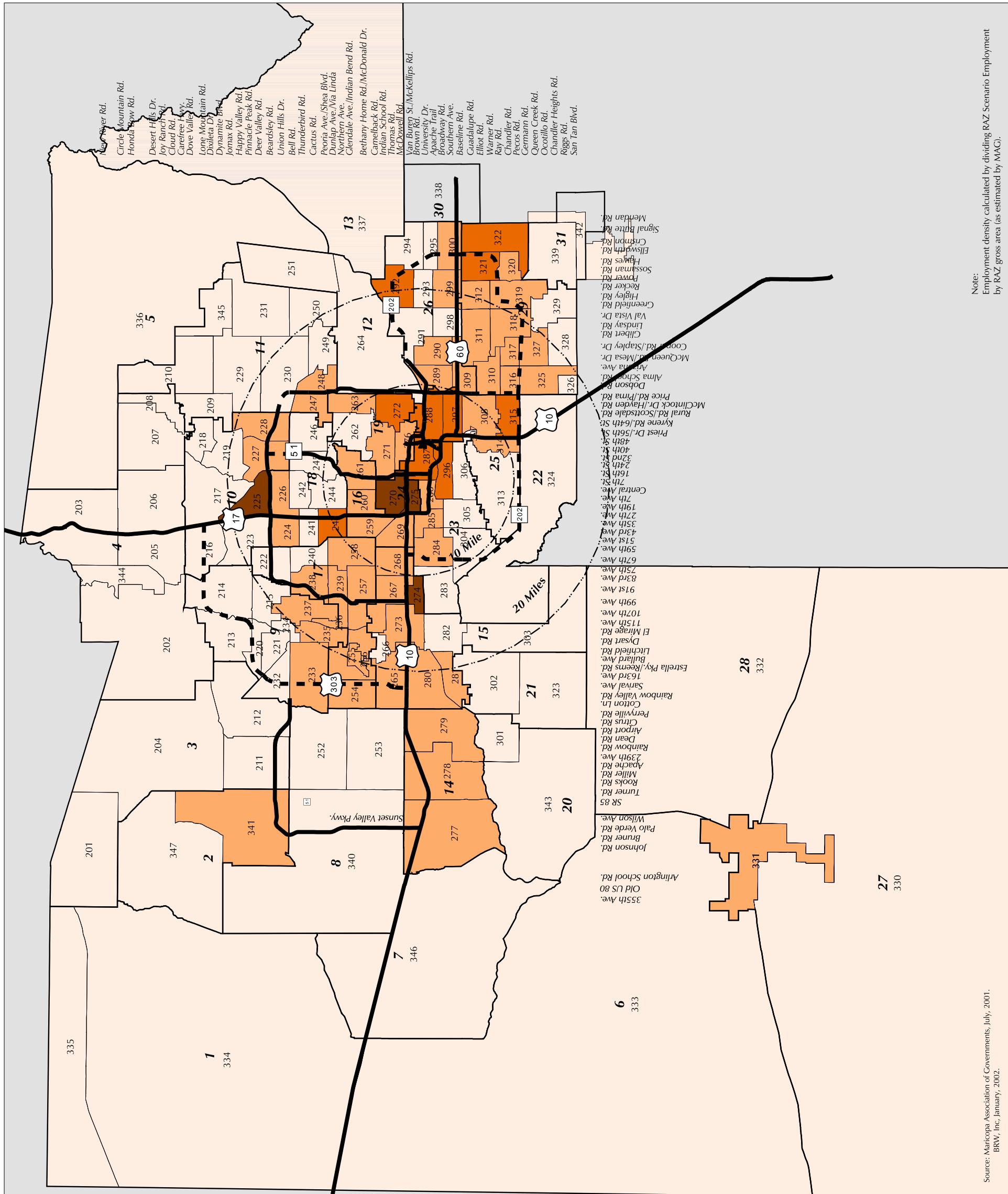


Table E-1: Growth Scenario 4, Suburban Fringe Emphasis - Population

Raz	Rtpz	Pop2000	Bopop_10	Bopop_30	Bopop_tgt	Bopop_90ma	Bopop_110	Categories	Scen_Pop
201	3	7,406	5,231	15,692	52,305	94,921	116,015	Bopop-Target	52,305
202	4	248	12,447	37,341	124,470	179,559	219,461	Bopop-Target	124,470
203	4	2,025	3,039	9,118	30,394	231,654	283,133	Bopop-Target	30,394
204	3	2,702	9,889	29,668	98,892	213,935	261,476	Bopop-Target	98,892
205	4	1,785	19,666	58,998	196,659	257,810	315,101	Bopop-30	75,000
206	4	8,806	7,452	22,356	74,520	135,359	165,439	Bopop-Target	100,000
207	4	3,812	1,557	4,670	15,568	92,126	112,598	Bopop-Target	15,568
208	4	2,927	606	1,817	6,056	11,645	14,233	Bopop-Target	6,056
209	11	6,889	2,554	7,661	25,538	28,586	34,938	Bopop-Target	25,538
210	11	1,589	5,501	16,502	55,005	66,174	80,879	Bopop-Target	55,005
211	3	314	9,746	29,239	97,463	126,691	154,845	Bopop-Target	97,463
212	3	2,582	14,727	44,180	147,265	180,804	220,983	Bopop-Target	147,265
213	9	60	10,306	30,917	103,055	145,956	178,391	Bopop-Target	80,000
214	9	3,735	10,530	31,591	105,303	150,928	184,468	Bopop-Target	105,303
215	9	29,695	5,266	15,799	52,664	56,202	68,691	Bopop-Target	52,664
216	10	4	10,880	32,640	108,800	147,701	180,523	Bopop-Target	70,000
217	10	572	9,182	27,546	91,820	130,693	159,736	Bopop-Target	91,820
218	10	8,940	1,867	5,602	18,673	21,557	26,347	Bopop-Target	18,673
219	10	10,656	7,763	23,288	77,626	88,841	108,583	Bopop-Target	77,626
220	9	5,287	1,916	5,749	19,163	24,420	29,847	Bopop-Target	19,163
221	9	21,114	3,339	10,017	33,391	41,307	50,486	Bopop-Target	33,391
222	17	46,516	5,507	16,520	55,066	55,869	68,284	Bopop-Target	55,066
223	10	31,445	5,699	17,098	56,994	60,737	74,234	Bopop-Target	56,994
224	18	46,796	5,146	15,439	51,463	52,102	63,680	No Growth	46,796
225	10	11,284	2,698	8,094	26,979	30,099	36,788	Bopop-Target	26,979
226	18	62,241	7,385	22,155	73,850	77,335	94,521	No Growth	62,241
227	10	36,010	8,491	25,473	84,909	91,879	112,297	Bopop-Target	84,909
228	10	9,152	8,677	26,030	86,767	101,466	124,014	Bopop-Target	86,767
229	11	13,525	5,995	17,985	59,951	66,299	81,032	Bopop-Target	59,951
230	11	15,820	5,458	16,373	54,576	57,260	69,984	Bopop-Target	54,576
231	11	1,385	142	427	1,424	1,424	1,740	Bopop-Target	1,424
232	9	15,424	5,308	15,925	53,083	55,280	67,564	Bopop-Target	53,083
233	9	6,413	14,631	43,892	146,305	165,587	202,384	Bopop-Target	146,305
234	9	8,551	1,627	4,882	16,272	17,048	20,836	Bopop-Target	16,272
235	9	7,609	5,196	15,588	51,961	54,454	66,555	Bopop-Target	51,961
236	9	3,013	441	1,324	4,412	5,063	6,188	Bopop-Target	4,412
237	9	38,471	5,426	16,279	54,262	64,782	79,178	Bopop-Target	54,262
238	17	48,579	6,253	18,759	62,530	69,365	84,779	Bopop-Target	62,530
239	17	29,906	4,787	14,361	47,869	56,288	68,796	Bopop-Target	47,869
240	17	42,638	4,656	13,968	46,561	47,446	57,990	No Growth	42,638
241	18	43,333	4,886	14,657	48,858	49,625	60,653	No Growth	43,333
242	18	28,872	3,550	10,650	35,500	37,117	45,365	No Growth	28,872
243	18	57,913	6,014	18,043	60,144	61,338	74,969	No Growth	57,913
244	18	54,253	6,545	19,636	65,454	67,929	83,024	No Growth	54,253
245	18	57,095	6,564	19,692	65,641	66,822	81,671	No Growth	57,095
246	18	60,651	6,567	19,702	65,672	66,248	80,970	No Growth	60,651
247	11	11,852	1,411	4,232	14,107	14,867	18,171	Bopop-Target	14,107
248	11	36,311	3,932	11,797	39,323	40,422	49,405	Bopop-Target	39,323
249	11	18,101	2,965	8,896	29,653	33,104	40,460	Bopop-Target	29,653
250	11	20,235	3,326	9,978	33,260	36,109	44,133	Bopop-Target	33,260
251	12	824	82	247	824	824	1,007	Bopop-Target	824
252	8	0	1,906	5,717	19,056	33,920	41,458	Bopop-Target	19,056
253	8	1,935	13,229	39,686	132,288	165,959	202,839	Bopop-Target	132,288

Table E-1: Growth Scenario 4, Suburban Fringe Emphasis - Population

Raz	Rtpz	Pop2000	Bopop_10	Bopop_30	Bopop_tgt	Bopop_90ma	Bopop_110	Categories	Scen_Pop
254	17	3,024	5,311	15,932	53,108	73,254	89,533	Bopop-Target	53,108
255	17	4,414	3,518	10,553	35,178	51,603	63,070	Bopop-Target	35,178
256	17	3,851	814	2,441	8,136	10,993	13,436	Bopop-Target	8,136
257	17	32,547	6,925	20,776	69,254	81,512	99,626	Bopop-Target	69,254
258	17	96,396	10,914	32,741	109,137	115,492	141,157	No Growth	96,396
259	16	72,532	7,780	23,341	77,802	79,226	96,832	No Growth	72,532
260	16	55,121	5,964	17,892	59,640	60,254	73,644	No Growth	55,121
261	16	31,459	3,289	9,867	32,890	33,254	40,644	No Growth	31,459
262	19	13,891	1,684	5,053	16,842	21,132	25,828	No Growth	13,891
263	19	34,189	3,506	10,519	35,064	35,462	43,342	No Growth	34,189
264	12	6,402	680	2,041	6,804	9,346	11,423	Bopop-Target	6,804
265	15	6,442	4,917	14,752	49,173	50,500	61,722	Bopop-Target	49,173
266	15	3,813	2,573	7,719	25,731	27,765	33,935	Bopop-Target	25,731
267	15	56,712	10,013	30,040	100,132	117,922	144,127	Bopop-Target	100,132
268	15	87,979	11,163	33,490	111,633	123,546	151,001	Bopop-Target	111,633
269	16	67,048	7,009	21,027	70,091	71,195	87,016	No Growth	67,048
270	24	70,180	7,754	23,262	77,539	79,113	96,694	No Growth	70,180
271	19	62,456	6,587	19,760	65,867	66,588	81,385	No Growth	62,456
272	19	64,293	6,660	19,979	66,597	67,216	82,153	No Growth	64,293
273	15	24,608	8,158	24,473	81,577	88,979	108,752	Bopop-Target	81,577
274	15	4,977	601	1,803	6,009	6,123	7,484	Bopop-Target	6,009
275	24	27,917	3,170	9,509	31,697	32,237	39,401	No Growth	27,917
276	19	42,692	5,197	15,591	51,970	54,834	67,019	No Growth	42,692
277	14	1,724	15,207	45,621	152,070	263,619	322,201	Bopop-Target	152,070
278	14	9,882	19,700	59,100	196,999	258,444	315,876	Bopop-Target	196,999
279	14	2,579	17,652	52,957	176,522	230,353	281,543	Bopop-Target	176,522
280	15	10,974	12,097	36,290	120,965	129,626	158,432	Bopop-Target	120,965
281	15	160	1,122	3,367	11,224	11,254	13,755	Bopop-Target	11,224
282	15	12,643	4,852	14,556	48,521	51,547	63,002	Bopop-Target	48,521
283	23	2,065	5,987	17,961	59,871	64,919	79,345	No Growth	2,065
284	23	1,140	3,516	10,548	35,160	41,628	50,879	No Growth	1,140
285	23	18,249	1,932	5,796	19,321	19,440	23,760	No Growth	18,249
286	23	16,427	2,040	6,120	20,400	21,238	25,958	No Growth	16,427
287	23	25,419	3,743	11,229	37,429	40,378	49,351	No Growth	25,419
288	25	54,645	6,313	18,939	63,129	64,289	78,575	No Growth	54,645
289	26	60,856	6,619	19,856	66,187	68,887	84,195	No Growth	60,856
290	26	76,828	8,037	24,111	80,371	81,673	99,823	No Growth	76,828
291	26	44,787	5,935	17,805	59,351	62,728	76,668	No Growth	44,787
292	26	17,807	3,012	9,035	30,117	32,721	39,992	Bopop-Target	30,117
293	26	29,610	3,603	10,808	36,028	36,915	45,118	Bopop-Target	36,028
294	26	3,426	1,576	4,728	15,759	23,847	29,146	Bopop-Target	15,759
295	26	19,034	3,411	10,233	34,110	38,547	47,113	Bopop-Target	34,110
296	23	32,850	5,476	16,429	54,764	63,145	77,177	No Growth	32,850
297	25	49,683	5,357	16,070	53,567	55,443	67,764	No Growth	49,683
298	26	50,812	5,817	17,452	58,173	61,943	75,708	No Growth	50,812
299	26	34,768	4,904	14,711	49,035	51,972	63,521	Bopop-Target	49,035
300	26	31,165	6,202	18,606	62,020	72,712	88,870	Bopop-Target	62,020
301	20	2,193	418	1,254	4,180	4,837	5,912	Bopop-Target	4,180
302	21	2,909	16,108	48,323	161,078	166,854	203,933	Bopop-Target	161,078
303	15	39	1,558	4,674	15,581	22,461	27,452	Bopop-Target	15,581
304	23	8,450	7,898	23,694	78,979	95,317	116,499	No Growth	8,450
305	23	15,022	5,388	16,164	53,881	60,876	74,404	No Growth	15,022
306	23	43,591	6,248	18,743	62,478	65,651	80,240	No Growth	43,591

Table E-1: Growth Scenario 4, Suburban Fringe Emphasis - Population

Raz	Rtpz	Pop2000	Bopop_10	Bopop_30	Bopop_tgt	Bopop_90ma	Bopop_110	Categories	Scen_Pop
307	25	5,228	712	2,136	7,121	7,856	9,602	No Growth	5,228
308	25	54,384	5,658	16,973	56,576	57,339	70,081	No Growth	54,384
309	26	47,147	5,052	15,157	50,522	51,071	62,420	No Growth	47,147
310	29	49,301	5,510	16,529	55,098	55,737	68,123	Bopop-Target	55,098
311	29	70,924	7,976	23,927	79,756	80,114	97,917	Bopop-Target	79,756
312	29	14,196	4,465	13,396	44,652	44,795	54,749	Bopop-Target	44,652
313	25	41,490	5,784	17,352	57,840	59,241	72,406	No Growth	41,490
314	25	34,671	3,919	11,757	39,189	40,569	49,584	No Growth	34,671
315	25	39,111	4,302	12,906	43,019	43,737	53,456	No Growth	39,111
316	29	30,117	3,979	11,938	39,794	40,778	49,840	Bopop-Target	39,794
317	29	30,439	3,570	10,710	35,699	37,359	45,661	Bopop-Target	35,699
318	29	25,356	5,911	17,733	59,109	63,354	77,433	Bopop-Target	59,109
319	29	4,509	11,698	35,093	116,977	126,441	154,539	Bopop-Target	102,400
320	29	1,065	372	1,115	3,715	4,317	5,276	Bopop-Target	3,715
321	29	14,611	6,003	18,010	60,032	84,544	103,332	Bopop-Target	60,032
322	29	4,644	8,534	25,603	85,343	99,123	121,150	Bopop-Target	85,343
323	21	186	35,600	106,801	356,002	385,030	470,592	Bopop-Target	356,002
324	22	2,699	1,097	3,292	10,972	19,253	23,531	Bopop-Target	10,972
325	29	26,031	5,739	17,217	57,390	60,811	74,325	Bopop-Target	57,390
326	29	8,337	939	2,818	9,394	9,394	11,482	Bopop-Target	9,394
327	29	2,798	2,957	8,870	29,565	34,449	42,104	Bopop-Target	29,565
328	29	5,442	4,042	12,127	40,422	48,403	59,159	Bopop-Target	40,422
329	29	2,293	5,697	17,092	56,974	63,929	78,135	Bopop-Target	56,974
330	27	309	5,096	15,287	50,956	67,819	82,890	No Growth	309
331	27	2,080	13,107	39,321	131,070	199,309	243,600	Bopop-Target	131,070
332	28	148	8,528	25,585	85,283	111,220	135,936	Bopop-30	25,585
333	6	1,201	38,143	114,428	381,425	504,157	616,192	No Growth	1,201
334	1	930	17,792	53,376	177,919	236,880	289,520	No Growth	930
335	1	326	2,004	6,012	20,039	26,598	32,509	No Growth	326
336	5	386	575	1,725	5,751	6,167	7,537	Bopop-30	1,725
337	13	82	216	647	2,157	2,567	3,137	Bopop-10	216
339	31	7,238	10,628	31,884	106,280	114,597	140,063	Bopop-Target	106,280
340	8	262	114,618	343,853	1,146,176	1,411,610	1,725,301	Bopop-30	693,459
341	2	78	47,875	143,626	478,752	633,115	773,807	Bopop-30	304,968
342	31	119	1,315	3,946	13,153	28,063	34,299	Bopop-Target	13,153
343	20	94	22,265	66,795	222,650	278,308	340,154	Bopop-30	66,795
344	4	0	4,824	14,473	48,243	74,889	91,531	Bopop-30	20,000
345	11	758	1,079	3,236	10,787	13,412	16,392	Bopop-Target	10,787
346	7	2,735	9,507	28,522	95,072	173,123	211,595	Bopop-10	9,507
347	2	563	3,140	9,420	31,399	60,172	73,544	Bopop-10	3,140
Scenario Total									8,500,000
Note: Scenario population values are based on the identified category reference. However, for the shaded entries planning judgement was applied to data in selected regional analysis zones (RAZ) to reflect specific conditions of each individual scenario.									
Source: URSS/BRW, January 2002.									

Table E-2: Growth Scenario 4, Suburban Fringe Emphasis - Employment

Raz	Rtpz	Emp2000	BoEmp_10	BoEmp_30	Empbo	BoEmp_110	Categories	Scen_Emp
201	3	3,530	2,183	6,548	21,825	24,008	BoEmp-30	6,548
202	4	22	2,968	8,903	29,676	32,644	BoEmp-30	8,903
203	4	209	184	552	1,840	2,024	BoEmp-Target	1,840
204	3	296	1,514	4,543	15,143	16,657	BoEmp-Target	15,143
205	4	407	7,936	23,809	79,362	87,298	BoEmp-30	15,000
206	4	1,149	3,184	9,552	31,840	35,024	BoEmp-30	9,552
207	4	1,546	557	1,672	5,574	6,131	BoEmp-Target	5,574
208	4	1,805	331	993	3,311	3,642	BoEmp-Target	3,311
209	11	1,318	330	989	3,298	3,628	BoEmp-Target	3,298
210	11	485	1,237	3,710	12,367	13,604	BoEmp-Target	12,367
211	3	0	3,781	11,342	37,807	41,588	BoEmp-Target	37,807
212	3	190	4,006	12,017	40,056	44,062	BoEmp-Target	40,056
213	9	0	4,403	13,210	44,032	48,435	BoEmp-30	26,001
214	9	88	4,040	12,121	40,403	44,443	BoEmp-30	12,121
215	9	2,546	852	2,555	8,518	9,370	BoEmp-Target	8,518
216	10	4	2,954	8,861	29,535	32,489	BoEmp-Target	29,535
217	10	833	2,729	8,187	27,290	30,019	BoEmp-Target	27,290
218	10	366	174	522	1,740	1,914	BoEmp-30	522
219	10	512	298	893	2,976	3,274	BoEmp-Target	2,976
220	9	69	681	2,042	6,807	7,488	BoEmp-Target	6,807
221	9	4,031	2,679	8,036	26,785	29,464	BoEmp-30	8,036
222	17	11,079	1,940	5,821	19,404	21,344	BoEmp-Target	19,404
223	10	5,604	1,994	5,982	19,940	21,934	BoEmp-Target	19,940
224	18	18,016	2,030	6,090	20,299	22,329	BoEmp-Target	20,299
225	10	18,626	10,262	30,786	102,621	112,883	BoEmp-Target	102,621
226	18	20,044	2,567	7,700	25,667	28,234	No Growth	20,044
227	10	6,050	2,681	8,044	26,813	29,494	BoEmp-Target	26,813
228	10	717	3,665	10,995	36,650	40,315	BoEmp-Target	36,650
229	11	4,769	1,293	3,878	12,928	14,221	BoEmp-Target	12,928
230	11	4,016	3,789	11,366	37,887	41,676	BoEmp-Target	37,887
231	11	237	25	75	250	275	BoEmp-Target	250
232	9	537	464	1,392	4,641	5,105	BoEmp-Target	4,641
233	9	609	4,317	12,950	43,167	47,484	BoEmp-Target	43,167
234	9	1,752	177	530	1,766	1,943	BoEmp-Target	1,766
235	9	1,019	3,547	10,642	35,473	39,020	BoEmp-Target	35,473
236	9	1,395	312	937	3,123	3,435	BoEmp-Target	3,123
237	9	10,294	4,253	12,758	42,527	46,780	BoEmp-Target	42,527
238	17	9,921	2,327	6,980	23,267	25,594	BoEmp-Target	23,267
239	17	6,672	3,158	9,474	31,581	34,739	BoEmp-Target	31,581
240	17	12,275	1,780	5,339	17,797	19,577	No Growth	12,275
241	18	10,383	1,466	4,397	14,658	16,124	No Growth	10,383
242	18	7,842	997	2,990	9,966	10,963	No Growth	7,842
243	18	45,638	4,958	14,873	49,578	54,536	No Growth	45,638
244	18	18,800	2,016	6,048	20,160	22,176	No Growth	18,800
245	18	14,453	1,678	5,034	16,781	18,459	No Growth	14,453
246	18	19,774	2,487	7,462	24,873	27,360	No Growth	19,774
247	11	28,437	3,530	10,589	35,295	38,825	BoEmp-Target	35,295
248	11	14,682	2,811	8,432	28,106	30,917	BoEmp-Target	28,106
249	11	4,670	1,715	5,146	17,154	18,869	BoEmp-Target	17,154
250	11	3,824	894	2,682	8,939	9,833	BoEmp-Target	8,939
251	12	1,812	181	544	1,812	1,993	BoEmp-Target	1,812
252	8	0	0	0	1	1	BoEmp-Target	2,000
253	8	163	1,443	4,328	14,425	15,868	BoEmp-Target	14,425

Table E-2: Growth Scenario 4, Suburban Fringe Emphasis - Employment

Raz	Rtpz	Emp2000	BoEmp_10	BoEmp_30	Empbo	BoEmp_110	Categories	Scen_Emp
254	17	270	2,643	7,930	26,434	29,077	BoEmp-Target	26,434
255	17	1,007	4,187	12,562	41,874	46,061	BoEmp-Target	41,874
256	17	7,559	1,074	3,223	10,743	11,817	BoEmp-Target	10,743
257	17	5,835	6,732	20,197	67,324	74,056	BoEmp-Target	67,324
258	17	31,918	3,959	11,876	39,585	43,544	No Growth	31,918
259	16	18,467	1,969	5,908	19,692	21,661	No Growth	18,467
260	16	26,614	2,677	8,030	26,765	29,442	No Growth	26,614
261	16	35,286	3,557	10,672	35,572	39,129	No Growth	35,286
262	19	6,219	1,640	4,919	16,396	18,036	No Growth	6,219
263	19	22,885	2,487	7,460	24,868	27,355	No Growth	22,885
264	12	3,418	10,338	31,015	103,382	113,720	BoEmp-Target	103,382
265	15	2,860	11,959	35,876	119,587	131,546	BoEmp-Target	77,732
266	15	1,535	334	1,002	3,339	3,673	BoEmp-Target	3,339
267	15	5,606	4,608	13,823	46,076	50,684	BoEmp-Target	46,076
268	15	12,964	2,657	7,971	26,570	29,227	BoEmp-Target	26,570
269	16	38,069	4,934	14,803	49,342	54,276	No Growth	38,069
270	24	81,942	8,426	25,278	84,259	92,685	No Growth	81,942
271	19	53,800	5,591	16,772	55,905	61,496	No Growth	53,800
272	19	52,520	5,857	17,570	58,566	64,423	No Growth	52,520
273	15	3,212	6,359	19,076	63,585	69,944	BoEmp-Target	63,585
274	15	8,168	4,681	14,042	46,807	51,488	BoEmp-Target	46,807
275	24	69,664	7,781	23,342	77,805	85,586	No Growth	69,664
276	19	22,755	3,036	9,108	30,359	33,395	No Growth	22,755
277	14	2,720	21,888	65,663	218,875	240,763	BoEmp-Target	150,000
278	14	2,543	9,036	27,108	90,359	99,395	BoEmp-Target	90,359
279	14	956	7,411	22,233	74,111	81,522	BoEmp-Target	74,111
280	15	3,742	3,543	10,628	35,427	38,970	BoEmp-Target	35,427
281	15	1,894	1,658	4,975	16,583	18,241	BoEmp-Target	16,583
282	15	1,406	1,094	3,282	10,940	12,034	BoEmp-Target	10,940
283	23	2,436	4,660	13,980	46,601	51,261	No Growth	2,436
284	23	22,560	5,852	17,557	58,522	64,374	No Growth	22,560
285	23	16,648	2,562	7,686	25,619	28,181	No Growth	16,648
286	23	16,356	2,157	6,470	21,566	23,723	No Growth	16,356
287	23	56,924	7,312	21,936	73,119	80,431	No Growth	56,924
288	25	70,019	9,216	27,647	92,155	101,371	No Growth	70,019
289	26	29,274	3,875	11,625	38,751	42,626	No Growth	29,274
290	26	29,211	3,369	10,107	33,690	37,059	No Growth	29,211
291	26	7,327	1,962	5,885	19,615	21,577	BoEmp-Target	19,615
292	26	8,712	6,192	18,576	61,920	68,112	BoEmp-Target	61,920
293	26	3,629	1,073	3,219	10,730	11,803	BoEmp-Target	10,730
294	26	268	326	979	3,264	3,590	BoEmp-Target	3,264
295	26	1,126	291	872	2,907	3,198	BoEmp-Target	2,907
296	23	46,134	5,508	16,523	55,077	60,585	No Growth	46,134
297	25	47,149	5,109	15,326	51,086	56,195	No Growth	47,149
298	26	7,466	1,169	3,507	11,690	12,859	BoEmp-Target	11,690
299	26	17,519	3,186	9,559	31,862	35,048	BoEmp-Target	31,862
300	26	1,057	2,271	6,814	22,712	24,983	BoEmp-Target	22,712
301	20	167	233	698	2,327	2,560	BoEmp-Target	2,327
302	21	103	2,297	6,890	22,966	25,263	BoEmp-Target	22,966
303	15	0	87	260	865	952	BoEmp-Target	865
304	23	859	1,744	5,233	17,442	19,186	No Growth	859
305	23	2,085	906	2,718	9,060	9,966	No Growth	2,085
306	23	11,290	1,941	5,822	19,405	21,346	No Growth	11,290

Table E-2: Growth Scenario 4, Suburban Fringe Emphasis - Employment

Raz	Rtpz	Emp2000	BoEmp_10	BoEmp_30	Empbo	BoEmp_110	Categories	Scen_Emp
307	25	487	156	467	1,556	1,712	No Growth	487
308	25	40,605	5,772	17,315	57,715	63,487	BoEmp-Target	57,715
309	26	30,584	4,094	12,282	40,939	45,033	No Growth	30,584
310	29	14,931	2,410	7,229	24,098	26,508	BoEmp-Target	24,098
311	29	19,599	3,800	11,400	38,000	41,800	BoEmp-Target	38,000
312	29	1,097	2,202	6,605	22,015	24,217	BoEmp-Target	22,015
313	25	2,794	627	1,882	6,272	6,899	BoEmp-Target	6,272
314	25	11,549	1,892	5,675	18,915	20,807	BoEmp-Target	18,915
315	25	21,359	5,817	17,451	58,170	63,987	BoEmp-Target	58,170
316	29	10,039	1,917	5,750	19,168	21,085	BoEmp-Target	19,168
317	29	3,817	700	2,099	6,997	7,697	BoEmp-Target	8,000
318	29	1,262	4,875	14,624	48,746	53,621	BoEmp-Target	48,746
319	29	450	2,480	7,439	24,796	27,276	BoEmp-Target	24,796
320	29	696	2,543	7,628	25,427	27,970	BoEmp-Target	25,427
321	29	2,246	7,165	21,496	71,652	78,817	BoEmp-Target	71,652
322	29	3,682	11,657	34,970	116,568	128,225	BoEmp-Target	116,568
323	21	103	1,785	5,355	17,851	19,636	BoEmp-Target	17,851
324	22	3,563	6,676	20,028	66,759	73,435	BoEmp-Target	66,759
325	29	7,383	2,982	8,945	29,817	32,799	BoEmp-Target	29,817
326	29	2,229	223	669	2,229	2,452	BoEmp-Target	2,229
327	29	936	4,611	13,834	46,113	50,724	BoEmp-Target	45,110
328	29	974	1,084	3,251	10,838	11,922	BoEmp-Target	10,838
329	29	522	501	1,502	5,008	5,509	BoEmp-Target	5,008
330	27	30	3	9	30	33	BoEmp-Target	30
331	27	820	9,941	29,824	99,412	109,353	BoEmp-Target	99,412
332	28	7	1	2	7	8	BoEmp-Target	7
333	6	4,445	555	1,665	5,550	6,105	BoEmp-Target	5,550
334	1	128	13	38	128	141	BoEmp-Target	128
335	1	8	1	2	8	9	BoEmp-Target	8
336	5	65	159	477	1,590	1,749	BoEmp-30	477
337	13	62	24	72	240	264	BoEmp-30	72
339	31	1,511	660	1,979	6,598	7,258	BoEmp-Target	6,598
340	8	0	52,345	157,034	523,446	575,791	BoEmp-30	157,034
341	2	0	29,089	87,267	290,889	319,978	BoEmp-30	157,000
342	31	64	6	19	64	70	BoEmp-Target	64
343	20	1,138	114	341	1,138	1,252	BoEmp-Target	1,138
344	4	28	3	8	28	31	BoEmp-Target	13
345	11	15	17	50	167	184	BoEmp-Target	167
346	7	673	6,272	18,815	62,715	68,987	BoEmp-30	30,357
347	2	7	1	3	10	11	BoEmp-Target	10
Scenario Total								4,100,000
Note: Scenario employment values are based on the identified category reference. However, for the shaded entries planning judgement was applied to data in selected regional analysis zones (RAZ) to reflect specific conditions of each individual scenario.								
Source: BRW/URS, January 2002.								

APPENDIX F: MISCELLANEOUS FIGURES

Figure F-1: Classification of RTP Zones

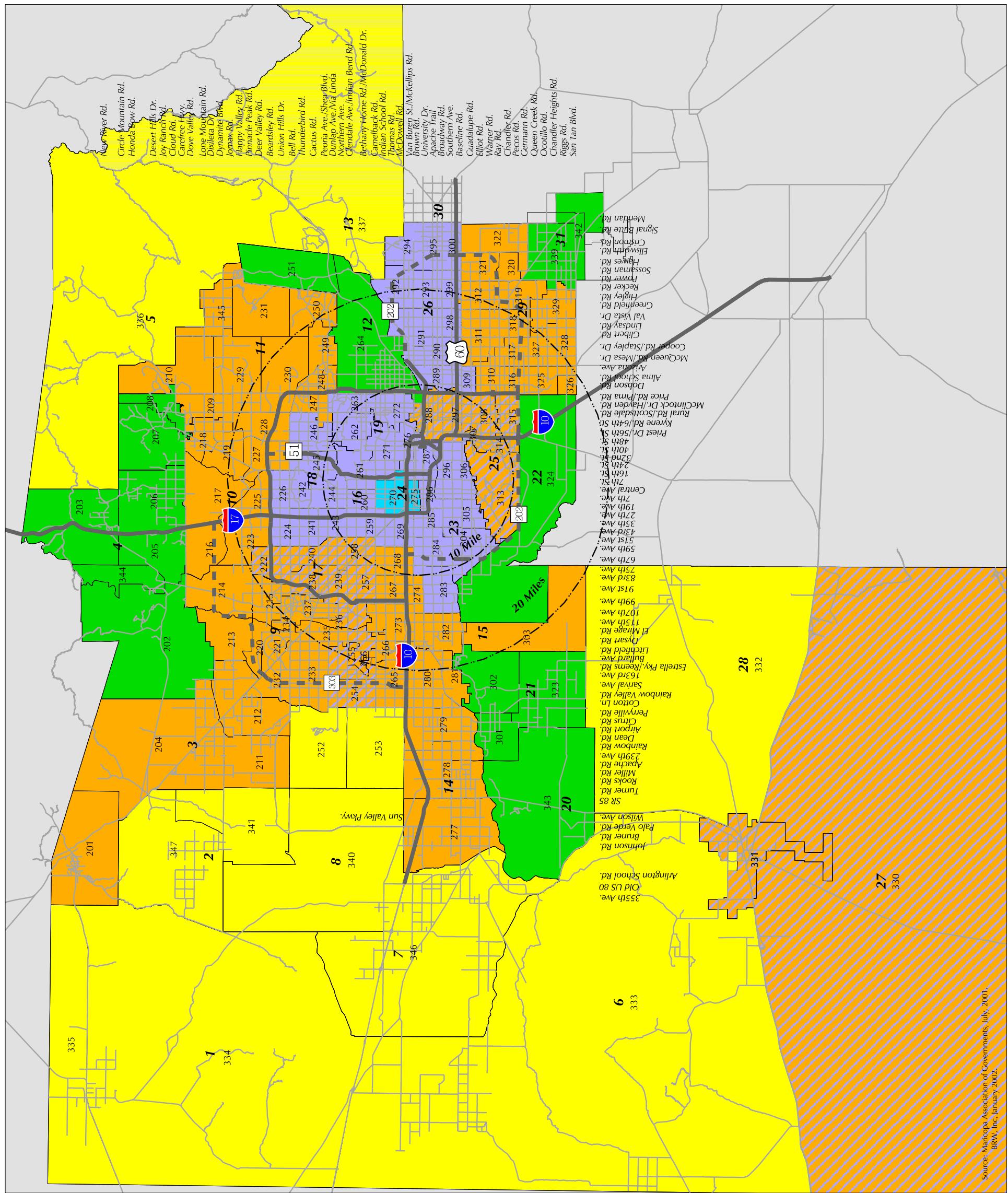
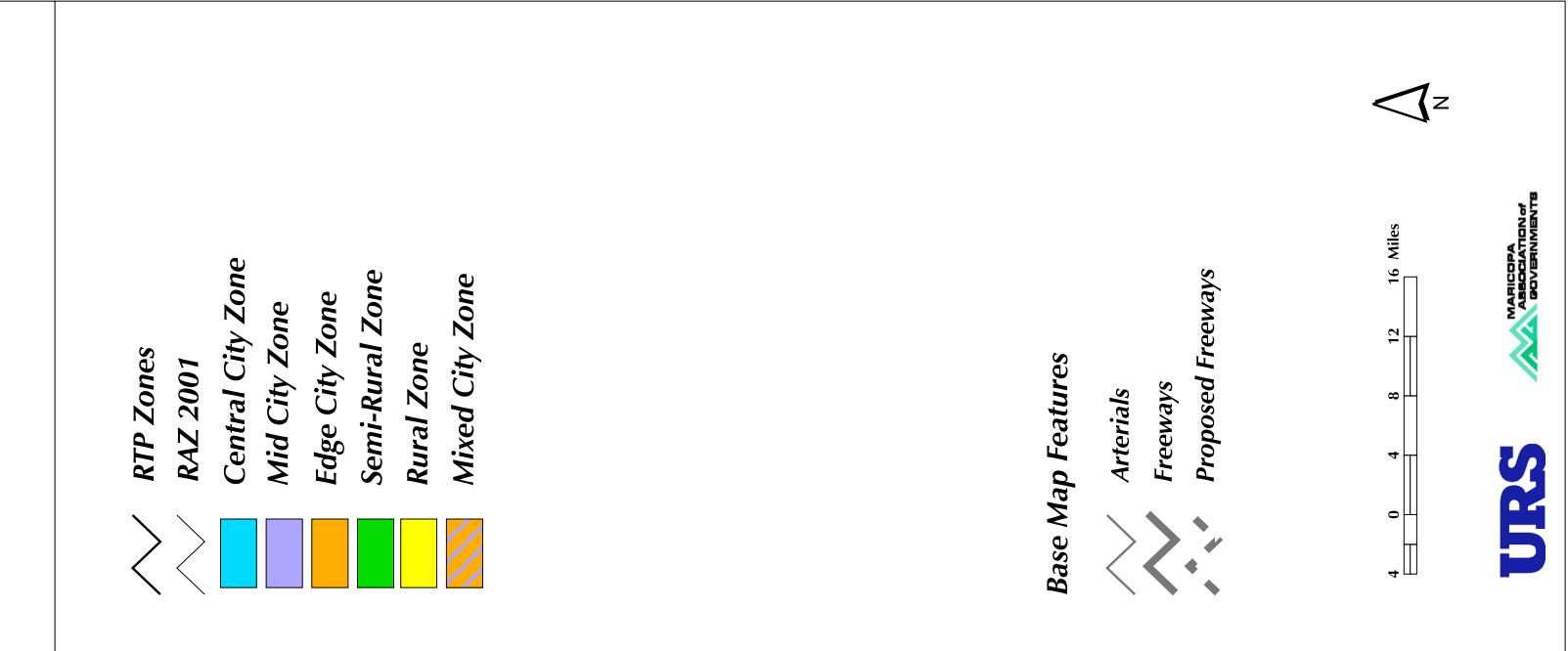
Figure F-2: Major Open Space Constraints

Figure F-3: Large Land Ownership

MAG REGIONAL TRANSPORTATION PLAN

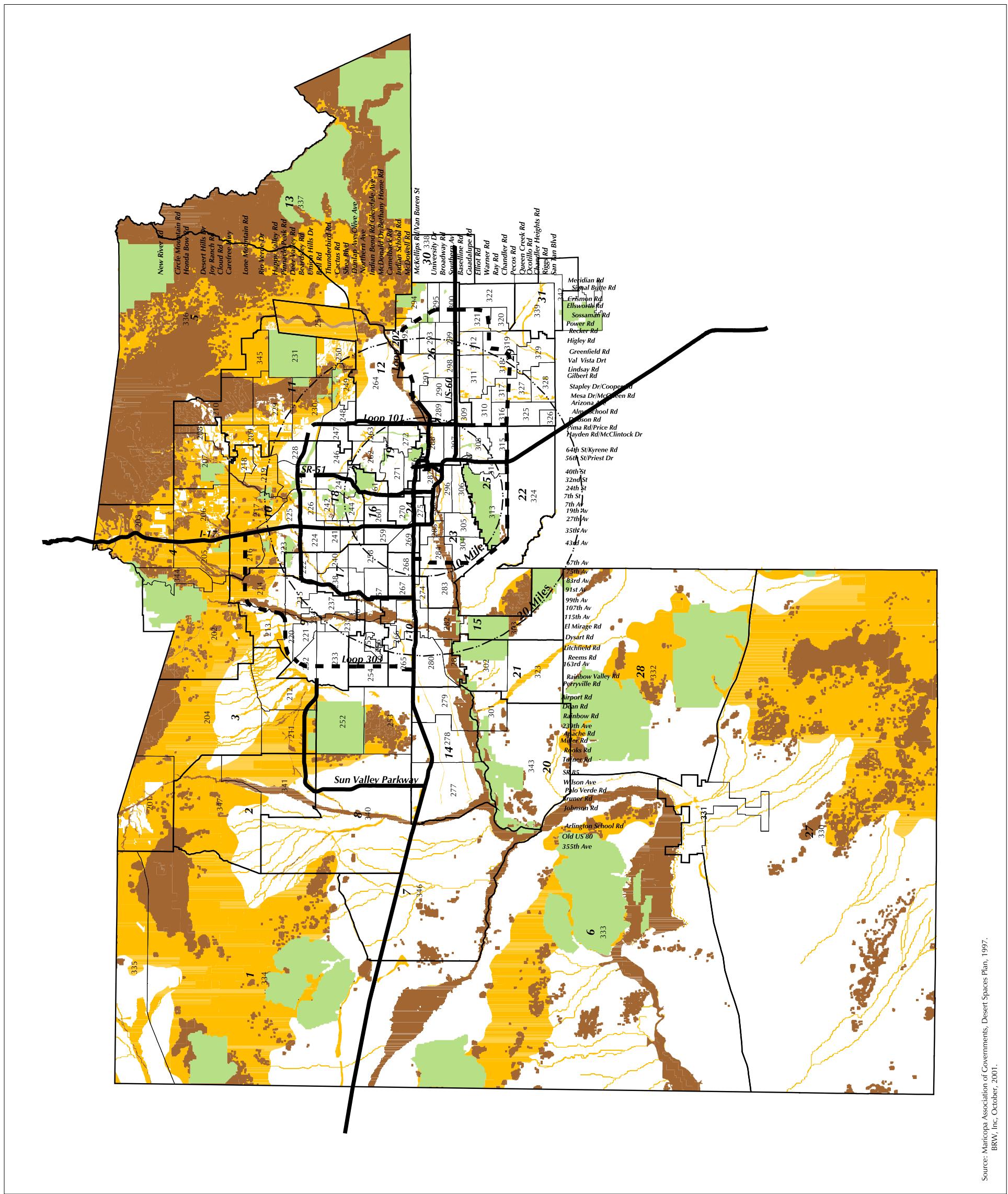
Figure F-1

Classification of RTP Zones



MAG REGIONAL TRANSPORTATION PLAN

Figure F-2
Major Open Space Constraints



MAG REGIONAL TRANSPORTATION PLAN

Figure F-3

Large Land Ownership

