ORDINANCE NO. 1997-80

AN ORDINANCE OF THE BOARD OF SUPERVISORS OF PIMA COUNTY, ARIZONA ADOPTING THE TRANSPORTATION BOND IMPROVEMENT PLAN FOR THE NOVEMBER 4, 1997 SPECIAL BOND ELECTION

I. Purpose ....................................................... 1 of 46

II. Schedule of Bond Sales, Debt Retirement Schedule, and Tax Impact of Issuing $350 Million in New HURF Transportation Revenue Bonds ........................................ 1 of 46
   A. Schedule of Bond Sales ........................................ 1 of 46
   B. Debt Retirement Schedule ..................................... 2 of 46
   C. Tax Impacts of a $350 Million HURF Revenue Bond Program .................................. 2 of 46
   D. Impacts of Incorporations and Annexations on Pima County HURF Revenue Bond Capacity ........................................ 4 of 46
   E. Intergovernmental Agreements Required to Offset County HURF Losses Due to New Incorporations ........................................ 5 of 46

III. General Schedule of Bond Project Development ........................................ 5 of 46

IV. Specific Project Description, Scope of Work, and Location by Major Category and Project ........................................ 6 of 46
   1) Project DOT-1 - River Road, First Avenue to Campbell Avenue .................. 7 of 46
   2) Project DOT-2 - Sunrise Drive, Swan to Craycroft ................................. 8 of 46
   3) Project DOT-3 - River Road, La Cholla Boulevard to La Cañada Drive .......... 8 of 46
   4) Project DOT-4 - River Road, Campbell Avenue to Alvernon Way ................... 9 of 46
   5) Project DOT-5 - Alvernon Way, Ft. Lowell Road to River Road .................... 10 of 46
   6) Project DOT-6 - Magee Road, La Cañada Drive to Oracle Road ..................... 11 of 46
   7) Project DOT-7 - Orange Grove Road at Geronimo Wash ............................... 11 of 46
   8) Project DOT-8 - Skyline Drive, Chula Vista to Orange Grove Road ............. 12 of 46
   9) Project DOT-9 - Skyline Drive, Orange Grove Road to Campbell Avenue .......... 12 of 46
   10) Project DOT-10 - La Cañada Drive, Ina Road to Lambert Lane .................. 13 of 46
    11) Project DOT-11 - Drexel Road, Tucson Boulevard to Alvernon Way ............. 13 of 46
    12) Project DOT-12 - Country Club Road, 36th Street to Irvington Road .......... 14 of 46
    13) Project DOT-13 - Ajo Way, Country Club Road to Alvernon Way ................... 15 of 46
    14) Project DOT-14 - Wetmore Road and Ruthrauff Roads, La Cholla Boulevard to Fairview Avenue .............. 15 of 46
    15) Project DOT-15 - River Road, Thornydale Road to Shannon Road .............. 16 of 46
    16) Project DOT-16 - River Road, Shannon Road to La Cholla Boulevard .......... 17 of 46
    17) Project DOT-17 - Valencia Road, Mark Road to Camino de la Tierra .......... 18 of 46
    18) Project DOT-18 - Cortaro Farms Road, Southern Pacific Railroad Crossing to Thornydale Road .................. 18 of 46
19) Project DOT-19 - Hartmann Lane North of Cortaro Farms Road
20) Project DOT-20 - La Cholla Boulevard, Interstate-10 to Ruthrauff Road
21) Project DOT-21 - Thornydale Road, Orange Grove Road to Ina Road
22) Project DOT-22 - Thornydale Road, Ina Road to Cortaro Farms Road
23) Project DOT-23 - Thornydale Road, Cortaro Farms Road to Linda Vista Boulevard
24) Project DOT-24 - Mainsail Boulevard and Twin Lakes Drive, Twenty-Seven Wash Vicinity
25) Project DOT-25 - Interstate 19 Southbound Frontage Road at Continental Road
26) Project DOT-26 - Abrego Drive at Interstate-19 Northbound Frontage Road
27) Project DOT-27 - River Road at Ventana Wash
28) Project DOT-28 - Speedway Boulevard, Camino Seco to Houghton Road
29) Project DOT-29 - Houghton Road, Speedway Boulevard to Tanque Verde Road
30) Project DOT-30 - Catalina Highway, Tanque Verde Road to Houghton Road
31) Project DOT-31 - Tanque Verde Road, Catalina Highway to Houghton Road
32) Project DOT-32 - Kolb Road, Sabino Canyon Road to Sunrise Drive
33) Project DOT-33 - Kolb Road at Sabino Canyon Road
34) Project DOT-34 - Camino del Sol, Continental Road to Ocotillo Wash
35) Project DOT-35 - Abrego Drive at Drainageway No. 1/Box Culvert
36) Project DOT-36 - Camino del Sol/West Parkway, Continental Road to Duval Mine Road
37) Project DOT-37 - Interstate-19 Northbound Frontage Road, Canoa TI to Continental TI
38) Project DOT-38 - Pistol Hill Road, Colossal Cave Road to Old Spanish Trail
39) Project DOT-39 - Valencia Road, Interstate-19 to South 12th Avenue
40) Project DOT-40 - Grant Road, Oracle Road to Park Avenue
41) Project DOT-41 - 22nd Street, Interstate-10 to Park Avenue
42) Project DOT-42 - South Tucson, 6th Avenue and Various Locations
43) Project DOT-43 - 12th Avenue, Veterans Boulevard to Los Reales Road
44) Project DOT-44 - 12th Avenue, Thornydale Road to Oracle Road
45) Project DOT-45 - La Cholla Boulevard, Ruthrauff Road to Ina Road
46) Project DOT-46 - Craycroft Road, River Road to Sunrise Drive
47) Project DOT-47 - Sunrise Drive, Craycroft Road to Kolb Road
48) Project DOT-48 - Duval Mine Road, La Cañada Drive to Abrego Drive
49) Project DOT-49 - Valencia Road, Mission Road to Interstate-19
50) Project DOT-50 - Kinney Road, Ajo Way to Bopp Road
51) Project DOT-51 - La Cañada/Las Quintas Highway Drainage Improvements
52) Project DOT-52 - Palo Verde Road, Interstate-10 to Veterans Memorial Interchange at Southern Pacific Railroad
53) Project DOT-53 - Old Tucson-Nogales Highway-Summit Neighborhood
54) Project DOT-54 - Mt. Lemmon Shuttle
55) Project DOT-55 - Golf Links Road, Bonanza Avenue to Houghton Road
56) Project DOT-56 - Broadway Boulevard, Euclid Avenue to Campbell
57) Project DOT-57 - Safety Improvements
V. Reliance on Other Funding for Project Implementation .................. 42 of 46

VI. Legal Issues Related to Projects Financed with HURF Revenue Bonds Inside Incorporated Jurisdictions ............................................. 44 of 46

A. Background on the Proposed $350 Million Transportation Revenue Bond Package ......................................................... 44 of 46
B. Legal Challenge to Authority to Expend County HURF Transportation Revenue Bonds on Municipal Streets and Highways .......... 44 of 46

VII. Continuing Regional Cooperation ............................................. 45 of 46

VIII. Implementation of Transportation Projects in Other Jurisdictions ........ 45 of 46

Tables

Table 1 - Proposed Schedule of Transportation Revenue Bond Sales ............... 1 of 46
Table 2 - Bond Payment Requirements ............................................. 2 of 46
Table 3 - New County HURF Distribution Formulas .................................. 3 of 46
Table 4 - Projected Pima County HURF Revenues Through Fiscal Year 2015/16 . 3 of 46
Table 5 - Planned Bond Project/Program Implementation Period .................... 6 of 46
Table 6 - Projected Roadway Development Impact Fee Revenues ..................... 43 of 46
Table 7 - Revenue Bond Allocations to Cities and Towns .............................. 45 of 46
Transportation Bond Improvement Plan
November 4, 1997 Special Election

ORDINANCE NO. 1997 - 80

AN ORDINANCE OF THE BOARD OF SUPERVISORS OF PIMA COUNTY, ARIZONA ADOPTING THE TRANSPORTATION BOND IMPROVEMENT PLAN FOR THE NOVEMBER 4, 1997 SPECIAL BOND ELECTION

Be it ordained by the Board of Supervisors of Pima County, Arizona, as follows:

I. Purpose

The purpose of this ordinance is to comply with Chapter 3.06 of the Pima County Code regarding bonding disclosure, accountability and implementation. On August 5, 1997, the Board of Supervisors adopted Resolution No. 1997 - 152 ordering and calling a special election on November 4, 1997, asking voter authorization to issue $350 million in transportation revenue bonds secured by the County’s annual Highway User Revenue Fund (HURF) revenues. This Transportation Bond Improvement Plan sets forth the particulars regarding each project proposed to be constructed, setting forth the amount of bond funds to be allocated to each project, along with an estimated time frame for implementing the particular project.

This Transportation Bond Improvement Plan shall become effective only if a majority of voters casting ballots in the November 4, 1997 special election authorize the issuance of bonds. In the event the electorate votes to not authorize issuance of the proposed transportation revenue bonds, Ordinance No. 1997 - 80 shall no longer be in force.

II. Schedule of Bond Sales, Debt Retirement Schedule, and Tax Impact of Issuing $350 Million in New HURF Transportation Revenue Bonds

A. Schedule of Bond Sales

The total value of HURF revenue bonds being submitted to the voters for approval is $350 million. If approved by the voters, six sales of revenue bonds in aggregates of $60 million to $50 million will be scheduled, beginning in early 1998. All projects should be completed within twelve years from the date of voter authorization. Shown below is a schedule of $60 million sales.

<table>
<thead>
<tr>
<th>Date of Sale</th>
<th>Amount of Sale</th>
<th>Cumulative Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>January 1998</td>
<td>$60,000,000</td>
<td>$ 60,000,000</td>
</tr>
<tr>
<td>January 2000</td>
<td>$60,000,000</td>
<td>$120,000,000</td>
</tr>
<tr>
<td>January 2002</td>
<td>$60,000,000</td>
<td>$180,000,000</td>
</tr>
<tr>
<td>January 2004</td>
<td>$60,000,000</td>
<td>$240,000,000</td>
</tr>
<tr>
<td>January 2006</td>
<td>$60,000,000</td>
<td>$300,000,000</td>
</tr>
<tr>
<td>January 2008</td>
<td>$50,000,000</td>
<td>$350,000,000</td>
</tr>
</tbody>
</table>
B. Debt Retirement Schedule

The firm of Rauscher Pierce Refsnes, Inc. prepared the following analysis of a debt retirement schedule for a $350 million revenue bond program. In preparing its analysis, the firm relied upon the following assumptions: 1) five sales in aggregates of $60,000,000 occurring every two years, with the last sale being for $50,000,000; 2) ten year maturity on all bonds sold; 3) an interest rate of 6.5 percent; 4) an aggressive retirement of principal in the early years to keep interest payments to a minimum; and 5) bond debt period will be limited to ten years to minimize the amount of interest paid for debt service. Limiting the term of bond debt to 10 years rather than the more customary 15 years will reduce total interest payments by 37 percent.

<table>
<thead>
<tr>
<th>Fiscal Year</th>
<th>Total Debt Service</th>
</tr>
</thead>
<tbody>
<tr>
<td>1998/99</td>
<td>$ 13,250,000</td>
</tr>
<tr>
<td>1999/2000</td>
<td>18,421,000</td>
</tr>
<tr>
<td>2000/01</td>
<td>19,222,000</td>
</tr>
<tr>
<td>2001/02</td>
<td>19,935,500</td>
</tr>
<tr>
<td>2002/03</td>
<td>20,717,500</td>
</tr>
<tr>
<td>2003/04</td>
<td>21,544,400</td>
</tr>
<tr>
<td>2004/05</td>
<td>22,409,400</td>
</tr>
<tr>
<td>2005/06</td>
<td>23,335,400</td>
</tr>
<tr>
<td>2006/07</td>
<td>24,269,400</td>
</tr>
<tr>
<td>2007/08</td>
<td>25,275,800</td>
</tr>
<tr>
<td>2008/09</td>
<td>26,325,700</td>
</tr>
<tr>
<td>2009/10</td>
<td>27,430,100</td>
</tr>
<tr>
<td>2010/11</td>
<td>28,594,600</td>
</tr>
<tr>
<td>2011/12</td>
<td>29,813,700</td>
</tr>
<tr>
<td>2012/13</td>
<td>31,091,600</td>
</tr>
<tr>
<td>2013/14</td>
<td>32,436,600</td>
</tr>
<tr>
<td>2014/15</td>
<td>33,850,800</td>
</tr>
<tr>
<td>2015/16</td>
<td>35,330,400</td>
</tr>
<tr>
<td>2016/17</td>
<td>35,331,000</td>
</tr>
<tr>
<td>2017/18</td>
<td>35,331,000</td>
</tr>
<tr>
<td>Total</td>
<td>$497,594,900</td>
</tr>
</tbody>
</table>

C. Tax Impacts of a $350 Million HURF Revenue Bond Program

Approving County Highway User Revenue Funds in the amount of $350 million at the November 4, 1997 special bond election will not result in any increase to any transportation tax that comprises the Highway User Revenue Fund. Bonds will be financed by an increased distribution to Pima County from the fund, discussed below.

Arizona Revised Statutes §11 - 371 et. seq. enables counties to incur debt and issue bonds for transportation purposes which are secured by revenues distributed to counties from the Highway User Revenue Fund (HURF). State gasoline taxes and other transportation related taxes are collected and deposited into the HURF. The revenues in HURF are then distributed to individual counties, to the State Highway Fund, and to individual cities and towns in accordance with formulas in state statutes. Historically, county HURF revenues were distributed on the basis of the origin of...
fuel sales; in other words, Pima County's share from the county HURF category was determined by the percentage of statewide gasoline sales which occurred in Pima County. For years, Pima County argued the origin of fuel sales formula was inequitable because it did not provide an accurate measurement of transportation needs in Pima County. In 1996, the Governor and Legislature enacted changes in the structure of HURF. In particular, the new legislation changes how county HURF revenues are allocated by phasing in proportional unincorporated population as a distribution factor.

Table 3

New County HURF Distribution Formulas

<table>
<thead>
<tr>
<th>Fiscal Year</th>
<th>Distribution Formula</th>
</tr>
</thead>
<tbody>
<tr>
<td>1995/96</td>
<td>100% origin of fuel sales</td>
</tr>
<tr>
<td>1996/97</td>
<td>85% origin of fuel sales and 15% unincorporated population</td>
</tr>
<tr>
<td>1997/98</td>
<td>80% origin of fuel sales and 20% unincorporated population</td>
</tr>
<tr>
<td>1998/99</td>
<td>76% origin of fuel sales and 24% unincorporated population</td>
</tr>
<tr>
<td>1999/2000 and beyond</td>
<td>72% origin of fuel sales and 28% unincorporated population</td>
</tr>
</tbody>
</table>

This new “HURF equity” legislation results in a significant increase in HURF revenues received by Pima County as compared to what would be received under the old formula. Additional funding to Pima County has been achieved by redistributing existing transportation tax revenues, not by increasing existing taxes or creating new taxes. HURF equity means Pima County will experience a better return of transportation taxes already paid. In 1996, Arizona legislative staff prepared the following projection of the impact to Pima County of HURF equity.

Table 4

Projected Pima County HURF Revenues Through Fiscal Year 2015/16

<table>
<thead>
<tr>
<th>Fiscal Year</th>
<th>New Distributions</th>
<th>Total Distributions</th>
</tr>
</thead>
<tbody>
<tr>
<td>1996/97</td>
<td>$ 3,335,188</td>
<td>$ 28,697,675</td>
</tr>
<tr>
<td>1997/98</td>
<td>6,097,624</td>
<td>32,169,722</td>
</tr>
<tr>
<td>1998/99</td>
<td>9,030,298</td>
<td>35,964,558</td>
</tr>
<tr>
<td>1999/00</td>
<td>14,210,964</td>
<td>42,433,664</td>
</tr>
<tr>
<td>2000/01</td>
<td>14,973,307</td>
<td>44,221,010</td>
</tr>
<tr>
<td>2001/02</td>
<td>15,721,972</td>
<td>45,989,850</td>
</tr>
<tr>
<td>2002/03</td>
<td>16,508,071</td>
<td>47,829,444</td>
</tr>
<tr>
<td>2003/04</td>
<td>17,333,475</td>
<td>49,742,622</td>
</tr>
<tr>
<td>2004/05</td>
<td>18,020,148</td>
<td>51,732,327</td>
</tr>
<tr>
<td>2005/06</td>
<td>19,110,156</td>
<td>53,801,620</td>
</tr>
<tr>
<td>2006/07</td>
<td>20,065,693</td>
<td>55,953,685</td>
</tr>
<tr>
<td>2007/08</td>
<td>21,068,947</td>
<td>58,191,832</td>
</tr>
<tr>
<td>2008/09</td>
<td>22,122,394</td>
<td>60,519,506</td>
</tr>
<tr>
<td>2009/10</td>
<td>23,228,514</td>
<td>62,940,286</td>
</tr>
<tr>
<td>2010/11</td>
<td>24,389,939</td>
<td>65,457,897</td>
</tr>
<tr>
<td>2011/12</td>
<td>25,609,436</td>
<td>68,076,213</td>
</tr>
</tbody>
</table>
The middle column, "new distributions," charts the additional revenues that will be received by Pima County as a result of HURF equity. By fiscal year 2015/16, Pima County is projected to receive an additional $387 million in revenues above what would have been received under the old formula. In fiscal year 1999/2000 and thereafter, HURF equity is projected to increase annual HURF revenues by approximately one-third.

Pima County proposes to allocate the "HURF equity" revenues to secure the proposed $350 million transportation bond package. Therefore, issuance of $350 million in transportation revenue bonds in accordance with the schedule proposed in Section II (A) will not require or otherwise result in increased taxes. Debt service will be managed through revenues on transportation related taxes which are already being paid and collected.

D. Impacts of Incorporations and Annexations on Pima County HURF Revenue Bonding Capacity

Presently approximately 30 percent of the statewide unincorporated population resides in Pima County and constitutes approximately 38 percent of the total Pima County population. Under the new "HURF equity" statutes, 28 percent of county HURF revenues will be distributed based upon proportional shares of unincorporated population. The projections discussed in the section above assumed no change in Pima County's proportional share of unincorporated population. Local incorporations and annexations, however, will have an effect of reducing Pima County's HURF revenue stream and therefore its revenue bonding capacity. In fiscal year 1999/2000, the first full year of "HURF equity," the impact of incorporation and/or annexation will be to reduce the County distribution by approximately $43 per capita. If 125,000 Pima County residents were to vote for incorporation at the November 4, 1997 election, projected revenues for fiscal year 1999/2000 would decline by $5,625,000, and by at least that amount in each succeeding year, which is the equivalent of approximately $50,000,000 in bonding capacity.

The November 4, 1997 transportation bond question only asks for voter authorization to issue revenue bonds for up to a maximum of $350 million. Decisions regarding the actual sale of revenue bonds will be made every two years. These decisions will be based upon a number of factors, the most important of which will be more precise estimates of the County's HURF revenue stream and

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1 Cities and towns also receive HURF revenues based upon distribution formulas which take proportional incorporated population and origin of fuel sales into account. Newly incorporated cities or towns, therefore, will receive new HURF revenues and annexations would increase the HURF revenue flow to existing cities and towns. This ordinance, however, is concerned only with HURF revenues and the bonding capacity of Pima County.
resultant bonding capacity.² If HURF revenues fall precipitously, if interest rates increase substantially above an estimated 6.5 percent, if ten year maturities are not achievable, or the bond markets resist the front loading of principal repayment, the Board of Supervisors may restructure the proposed schedule of bond sales and, as a result, may amend the transportation bond implementation plan enacted in Ordinance No. 1997-80, pursuant to Pima County Code Chapter 3.06.

E. Intergovernmental Agreements Required to Offset County HURF Losses Due to New Incorporations

Projects within newly incorporated jurisdictions beyond Implementation Period 1 will not be implemented without a specific financing plan for funding the particular project given a decrease in County bonding capacity due to revenue losses because of new incorporation. Revenues from the newly incorporated jurisdiction or other revenues may be used to supplement lost County revenues.

III. General Schedule of Bond Project Development

Actual implementation and development of the projects will depend on a number of variables. These variables include not only the amount of HURF bond debt that can be issued, but also specific project implementation details such as acquisition of rights-of-way or land for any specific project, permits from any state, federal or local jurisdiction, as well as required or necessary matching funds. Finally, federal bond arbitrage rules will also have an impact on project implementation. These rules require that once tax-free municipal bonds have been issued, all of the proceeds from the sale must be expended within two years and, if unexpended, financial penalties are assessed against the issuer. Therefore, it is imperative that any project scheduled to be constructed by a specific sale be initiated and constructed within the arbitrage limit for that particular sale. If a project is delayed because of design, right-of-way acquisition, federal, state or local permitting, or local matching fund requirements, a project that is scheduled for later implementation must be moved forward, rather than risk violating federal bond arbitrage rules.

Because of federal arbitrage rules and the ten years that may be necessary to issue HURF bonds, the implementation period will cover approximately twelve years. For planning purposes, implementation time frames will be divided into two year time blocks. Therefore, each project will be assigned an implementation period from between 1 and 6. For example, for a project assigned an implementation period of 1, the project should be started and completed during fiscal years 1998/1999 and 1999/2000.

Therefore, each project or program listed in this Bond Improvement Plan will be assigned an implementation period ranging from one to six as indicated in the table below over the twelve year expected life of the HURF bond authorization.

² Arizona Revised Statutes §11 - 378 restricts county transportation revenue bonding capacity to an aggregate amount whose annual principal and interest payments do not exceed fifty percent of the total HURF receipts from the year prior to issuance of the bonds. Pima County’s proposed program is premised upon allocation of less than one-half of its annual HURF revenues, providing an extra layer of financial security.
Table 5
Planned Bond Project/Program Implementation Period

<table>
<thead>
<tr>
<th>Fiscal Year</th>
<th>Implementation Period</th>
<th>Cumulative Bond Sale</th>
</tr>
</thead>
<tbody>
<tr>
<td>1998/99</td>
<td>1</td>
<td>$ 60,000,000</td>
</tr>
<tr>
<td>1999/2000</td>
<td>1</td>
<td>60,000,000</td>
</tr>
<tr>
<td>2000/01</td>
<td>2</td>
<td>120,000,000</td>
</tr>
<tr>
<td>2001/02</td>
<td>2</td>
<td>120,000,000</td>
</tr>
<tr>
<td>2002/03</td>
<td>3</td>
<td>180,000,000</td>
</tr>
<tr>
<td>2003/04</td>
<td>3</td>
<td>180,000,000</td>
</tr>
<tr>
<td>2004/05</td>
<td>4</td>
<td>240,000,000</td>
</tr>
<tr>
<td>2005/06</td>
<td>4</td>
<td>240,000,000</td>
</tr>
<tr>
<td>2006/07</td>
<td>5</td>
<td>300,000,000</td>
</tr>
<tr>
<td>2007/08</td>
<td>5</td>
<td>300,000,000</td>
</tr>
<tr>
<td>2008/09</td>
<td>6</td>
<td>350,000,000</td>
</tr>
<tr>
<td>2009/10</td>
<td>6</td>
<td>350,000,000</td>
</tr>
</tbody>
</table>

All of the HURF bonds scheduled for sale will be fully available for project implementation at the beginning of Implementation Period 6. As noted previously, the implementation periods assigned to each project will be adhered to, however, specific annual expenditures for each project will be detailed in an annual capital improvement program that will be adopted by the Board of Supervisors with the annual budget.

A cash flow analysis has been performed using the implementation period assigned for each project in Section IV of the Ordinance. This analysis assumes all funds assigned for the project are fully expended in the implementation period. For projects that cover one or more implementation periods, funding is divided equally between each period listed. The cash flow analysis indicates that the total funding required versus available for each period is less than ten percent at variance.

IV. Specific Project Description, Scope of Work, and Location by Major Category and Project

In this section each bond project or program approved by the Board of Supervisors is listed and described as required by Section 3.06.020, Bond Improvement Plan of the Pima County Code. The projects are listed by number, with a map reference that will be attached to this ordinance. The project description is also identified. Of the $350 million bond issue, $331 million has been identified to specific projects throughout the community and $19 million remains unallocated and will be dedicated for traffic safety improvements in accordance with criteria that will be identified and discussed as Project 57 at the end of this section. These projects provide a range of community benefits from reduced congestion, decreased travel time, reduced air pollution, as well as enhanced community development.

Because existing conditions and traffic volumes are known today, and future conditions can be predicted with a relatively high degree of accuracy based on past experience, it is possible to perform benefit/cost analyses on most of the projects. This benefit/cost analysis is a measure of overall economic benefits associated with implementation of a particular project, and has been used historically to measure the cost effectiveness of public investment. Benefits are based on reductions
in traffic congestion, reductions in traffic accidents, and for some new highway link projects, reductions in travel distance. The following assumptions are pertinent to the cost/benefit calculations contained in this section: A) benefits are discounted at 7 percent per year and assume a 20 year project life, B) congestion benefits were calculated only during peak demand hours, and C) traffic growth rates were averaged at 3 percent per year. The resulting estimate of benefits is deemed to be conservative using standard highway improvement and engineering procedures. For those projects where benefit/cost analysis is appropriate, the estimated total project benefits over the 20 year design period is estimated to be $2.1 billion. Obviously the cost of the improvements, some of which do not contribute benefits to the analysis, will be $350 million in principal, and $148 million in interest. Therefore, the overall cost of the $350 million program, including interest, is $498 million as compared to a conservative 20 year estimate of benefits of $2.1 billion.

A number of the projects based on current transportation system development do not readily lend themselves to benefit/cost analyses. These projects fall under the category of spot improvements for safety or drainage purposes, short roadway segment improvements for purposes of route and lane continuity, and projects where community redevelopment is a prime focus.

Below is a list of 57 projects to be completed with $350 million in County HURF Revenue Bonds. At the end of this ordinance, Figure 1 is a map indicating the location of each project.

1) Project: DOT-1 - River Road, First Avenue to Campbell Avenue

Location: Tucson, Unincorporated County

Bond Funding: $15,500,000

Scope: This project consists of widening and realignment of existing River Road between First Avenue and Campbell Avenue. The proposed project will be a four-lane divided roadway with landscape median, multi-use lanes, outside curbs, storm drains, pedestrian facilities and additional landscaping. The right-of-way will support future expansion to six lanes, if warranted. This cross section will match the segment of River Road from Oracle Road to First Avenue improved previously. The intersection of First Avenue and River Road will have only minor revisions to accommodate the cross section. The project will extend to just east of Campbell Avenue. Traffic signals at Via Entrada and Campbell Avenue will be reconstructed with this project. New culverts will be installed and existing culverts under River Road will be extended to carry drainage from the Foothills towards the Rillito River.

Benefit: The project will reduce congestion and enhance safety along River Road. The estimated economic value of the improvements to traffic flow and reductions in accidents are $83.93 million. The benefit/cost ratio is 5.4:1.

Other Funding: None proposed

Implementation Period: 1

Future Annual Operating & Maintenance Costs: $18,000
2] Project  
**DOT-2 - Sunrise Drive, Swan to Craycroft**

**Location:** Unincorporated County  
**Bond Funding:** $5,000,000  
**Scope:** The project will widen Sunrise Drive along its existing alignment from east of Swan Road to east of Craycroft Road. Proposed improvements will include two travel lanes in each direction, multi-use lanes, outside curbs and storm drains, landscaping and provision of pedestrian facilities and noise barriers where warranted. The median treatment will be either a raised landscape median or a median two-way left-turn lane, pending further evaluation of local area access and circulation requirements.  
**Benefit:** The project will reduce congestion and enhance safety along Sunrise Drive. The estimated economic value of the improvements to traffic flow and reductions in accidents are $71.73 million. The benefit/cost ratio is 14.3:1.  
**Other Funding:** None proposed  
**Implementation Period:** 1  
**Future Annual Operating & Maintenance Costs:** $15,000

3] Project  
**DOT-3 - River Road, La Cholla Boulevard to La Cañada Drive**

**Location:** Unincorporated County  
**Bond Funding:** $3,500,000  
**Scope:** The existing two-lane road will be replaced with a four-lane divided roadway similar to the recently completed improvements on River Road between La Cañada and 15th Avenue. Improvements will consist of a raised landscape median, two travel lanes in each direction, multi-use lanes, outside curbs, storm drains and landscaping. The right-of-way and alignment will support future expansion to six lanes, if warranted. Project will include pedestrian facilities. The existing box culverts will be lengthened to accommodate the widened cross section and at least one additional drainage structure will be built east of La Cholla Boulevard to accommodate the Citrus Wash drainage.
Benefit: The project will reduce congestion and enhance safety along River Road. The estimated economic value of the improvements to traffic flow and reductions in accidents are $26.28 million. The benefit/cost ratio is 2.7:1.

Other Funding: $6,200,000 (5,300,000 Urban Area HURF) (900,000 Developer Funded)

Implementation Period: 1

Future Annual Operating & Maintenance Costs: $24,000

4) Project: DOT-4 - River Road, Campbell Avenue to Alvernon Way

Location: Unincorporated County, Tucson

Bond Funding: $13,500,000

Scope: The proposed project will consist of widening and realignment of River Road from east of Campbell Avenue to the extension of Alvernon Way, east of Dodge Boulevard (see DOT-5). The road cross section will consist of two through lanes in each direction with a raised landscape median, multi-use lanes, outside curbs, storm drains and landscaping. The project will include improvements for transverse drainage for the Camino Real and Finger Rock Washes, as well as other smaller drainages that currently cross River Road. Improvements to Camino Real Wash will include increasing the channel capacity of the east braid of the wash north of River Road, construction of a box culvert under River Road, and construction of a new outfall channel to the Rillito River. Improvements for Finger Rock Wash are presently undefined but will, at a minimum, provide for drainage to flow under River Road.

The proposed project includes acquisition of an open space and mitigation area between the improved River Road and the Rillito River, through the River Bend area. The mitigation area will be incorporated with the Rillito River Linear Park.

Benefit: The project will reduce congestion and enhance safety along River Road. The estimated economic value of the improvements to traffic flow and reductions in accidents are $192.00 million. The benefit/cost ratio is 11.6:1.

Other Funding: $3,000,000 Urban Area HURF
5) **Project**: DOT-5 - Alvernon Way, Ft. Lowell Road to River Road  
**Location**: Unincorporated County, Tucson  
**Bond Funding**: $6,000,000  
**Scope**: The proposed project is extension of Alvernon Way from its existing intersection of Ft. Lowell Road north and west across the Rillito River to connect to River Road in the vicinity of Dodge Boulevard. The proposed roadway will be a four-lane cross section with a median from River Road to south of the Rillito River. North of Ft. Lowell the cross section will change to a median two-way left-turn lane similar to Alvernon Way south of Ft. Lowell Road. The new road will include multi-use lanes, outside curbs, storm drains, landscaping and pedestrian facilities. The project includes a new bridge across the Rillito River. Right-of-way for the proposed project was acquired with proceeds from the 1986 Transportation Bond issue.  
**Benefit**: The new Alvernon connection to River Road will provide a wider bridge structure across the Rillito River to replace the functionally obsolete and structurally deficient Dodge Boulevard bridge. Existing traffic volumes on Dodge Boulevard will be significantly reduced. Further evaluation will be made of the existing Dodge Boulevard to determine if the existing bridge will remain in use as a vehicular bridge, with additional weight limits, or will be restricted to pedestrian and bicycle access only to connect the south side of the Rillito River with the Linear Park on the north side. The project will reduce congestion and enhance safety along Dodge Boulevard. The estimated economic value of the improvements to traffic flow and reductions in accidents is $8.69 million. The benefit/cost ratio is 1.4:1.  
**Other Funding**: None proposed  
**Implementation Period**: 2/3  
**Future Annual Operating & Maintenance Costs**: $18,000
<table>
<thead>
<tr>
<th>6)</th>
<th><strong>Project</strong></th>
<th>DOT-6 - Magee Road, La Cañada Drive to Oracle Road</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Location:</td>
<td>Unincorporated County</td>
</tr>
<tr>
<td></td>
<td>Bond Funding:</td>
<td>$3,750,000</td>
</tr>
<tr>
<td></td>
<td>Scope:</td>
<td>The project consists of widening Magee Road between La Cañada Drive and Oracle Road to a four-lane cross section with a raised landscaped median, multi-use lanes, outside curbs, storm drains, landscaping and pedestrian facilities. A box culvert will be constructed to carry Pegler Wash under Magee Road and provision will be made for other transverse drainage.</td>
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<tr>
<td></td>
<td>Benefit:</td>
<td>The project will reduce congestion and enhance safety along Magee Road. The estimated economic value of the improvements to traffic flow and reductions in accidents are $26.06 million. The benefit/cost ratio is 4.3:1.</td>
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<tr>
<td></td>
<td>Other Funding:</td>
<td>$2,250,000 (Impact Fee Funds)</td>
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<td>Implementation Period:</td>
<td>3/4</td>
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<tr>
<td></td>
<td>Future Annual Operating &amp; Maintenance Costs:</td>
<td>$18,000</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>7)</th>
<th><strong>Project</strong></th>
<th>DOT-7 - Orange Grove Road at Geronimo Wash</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Location:</td>
<td>Unincorporated County</td>
</tr>
<tr>
<td></td>
<td>Bond Funding:</td>
<td>$800,000</td>
</tr>
<tr>
<td></td>
<td>Scope:</td>
<td>The proposed project consists of reconstruction of the drainage crossing carrying Geronimo Wash under Orange Grove Road in the vicinity of Calle de Estevan and raising Orange Grove Road on fill over the new structure to improve sight distance for local residential streets and for vehicles approaching the Orange Grove Road - First Avenue intersection. The reinforced concrete box culvert will be sized to accommodate a 100 year peak discharge in Geronimo Wash.</td>
</tr>
<tr>
<td></td>
<td>Benefit:</td>
<td>This segment of Orange Grove Road has had a history of serious traffic accidents. Restrictions on turning movements at local streets have helped to reduce accident rates in recent years, pending a permanent solution.</td>
</tr>
<tr>
<td></td>
<td>Other Funding:</td>
<td>None Proposed</td>
</tr>
</tbody>
</table>
Implementation Period: 5
Future Annual Operating & Maintenance Costs: No Increase

8) Project  DOT-8 - Skyline Drive, Chula Vista to Orange Grove Road
Location: Unincorporated County
Bond Funding: $1,800,000
Scope: The proposed project is the reconstruction of Skyline Drive to a more contemporary four-lane divided roadway cross section with landscape median, multi-use lanes, outside curbs and storm drains, edge landscaping, pedestrian facilities and roadway noise mitigation where warranted. The improvements will enhance the safety, level of service and visual quality of Skyline Drive.
Benefit: Primary benefits for this project will be in urban design, neighborhood mitigation, improved drainage and alternate mode facilities. Safety benefits from the improvements to the alignment and sight distance are also expected. The capacity of the roadway will be relatively unaffected by this improvement.
Other Funding: None proposed
Implementation Period: 3
Future Annual Operating & Maintenance Costs: No Increase

9) Project  DOT-9 - Skyline Drive, Orange Grove Road to Campbell Avenue
Location: Unincorporated County
Bond Funding: $1,800,000
Scope: The proposed project is the reconstruction of Skyline Drive to a more contemporary four-lane divided roadway cross section with landscape median, multi-use lanes, outside curbs and storm drains, edge landscaping, pedestrian facilities and roadway noise mitigation where warranted. The improvements will enhance the safety, level of service and visual quality of Skyline Drive. The intersection at Orange Grove Road will be modified to provide multi-use and turning lanes. Minor widening at Campbell Avenue will align with the cross section east of Campbell Avenue.
Benefit: Primary benefits for this project will be in urban design, neighborhood mitigation, improved drainage and alternate mode facilities. Safety benefits from the improvements to the alignment and sight distance are also expected. The capacity of the roadway will be relatively unaffected by this improvement.

Other Funding: None Proposed

Implementation Period: 3

Future Annual Operating & Maintenance Costs: No Increase

10) Project DOT-10 - La Cañada Drive, Ina Road to Lambert Lane
Location: Oro Valley, Unincorporated Pima County
Bond Funding: $8,500,000
Scope: The proposed project consists of reconstruction and widening of La Cañada Drive between Ina Road and Lambert Lane. Proposed cross section will include a raised landscape median, two travel lanes in each direction, multi-use lanes for transit and bicycle use, outside curbs and storm drains. Right-of-way will be improved with outside landscaping and noise mitigation where warranted.

Benefit: The project will reduce congestion and enhance safety along La Cañada Drive Avenue. The estimated economic value of the improvements to traffic flow and reductions in accidents are $103.53 million. The benefit/cost ratio is 4.8:1.

Other Funding: $13,000,000 (3,000,000 Town of Oro Valley Impact Fees) (3,000,000 Pima County Impact Fees) (7,000,000 Urban Area HURF)

Implementation Period: 2/3

Future Annual Operating & Maintenance Costs: $60,000

11) Project DOT-11 - Drexel Road, Tucson Boulevard to Alvernon Way
Location: Unincorporated County, Tucson
Bond Funding: $6,500,000
Scope: The proposed project consists of reconstruction and widening of Drexel Road. Proposed improvements will include two traffic lanes in each direction, multi-use lanes, outside curbs, storm drains, landscaping and neighborhood noise mitigation. The roadway median will be either a raised landscape median or a two-way left-turn lane to be determined by further study of local access and circulation needs. Significant improvements will be made in the drainage along the roadway and in the roadway profile where it intersects the north-south street system.

Benefit: This section of Drexel Road has five major intersections within one and one-half miles. The north-south roadways are the primary arterial routes into Tucson International Airport. The regional Mobility Management Plan has identified these as priority corridors to maintain high levels of service. Providing additional capacity on Drexel Road will allow for traffic signals to provide extended green times on the airport access routes without unduly delaying traffic on Drexel Road. The project will reduce congestion and enhance safety along Drexel Road.

Other Funding: None Proposed

Implementation Period: 4/5

Future Annual Operating & Maintenance Costs: $22,500

12) Project DOT-12 - Country Club Road, 36th Street to Irvington Road

Location: Unincorporated County, Tucson

Bond Funding: $7,000,000

Scope: The proposed improvements consist of reconstruction and widening of Country Club road to a four-lane roadway with multi-use lanes, outside curbs, storm drains and landscaping. The median treatment will be either a raised landscape median or a two-way median left-turn lane to be determined by further study of local access and circulation needs. Country Club road provides access to Kino Hospital, Sam Lena Park, Kino Sports Park and the Tucson Electric Park currently under construction. The intersection of Country Club Road and Irvington Road was improved in 1996 as part of a joint City of Tucson - Pima County project to widen and reconstruct Irvington Road, Benson Highway to I-10.

Benefit: The project will reduce congestion and enhance safety along Country Club Road and provide significant access improvements to the Kino public service center.
13) **Project**  
**DOT-13 - Ajo Way, Country Club Road to Alvernon Way**

**Location:** Unincorporated County

**Bond Funding:** $6,000,000

**Scope:** Proposed improvements include reconstruction and widening of existing Ajo Way to a six-lane divided roadway from Country Club Road to Alvernon Way. The roadway cross section will be similar to the recently completed improvements on Ajo Way west of Country Club. The project will provide additional roadway capacity, multi-use lanes for alternate modes, storm drains, roadside landscaping and pedestrian facilities which are currently not included with the existing roadway. Medians will be landscaped.

**Benefit:** The proposed project will improve drainage and access control along Ajo Way as well as increase capacity and improve safety. The project will reduce congestion and enhance safety along Ajo Way and increase access to the Kino public service center. The estimated economic value of the improvements to traffic flow and reductions in accidents are $7.33 million. The benefit/cost ratio is 1.2:1.

**Other Funding:** None Proposed

**Implementation Period:** 3/4

**Future Annual Operating & Maintenance Costs:** $30,000

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14) **Project**  
**DOT-14 - Wetmore Road and Ruthrauff Roads, La Cholla Boulevard to Fairview Avenue**

**Location:** Unincorporated County, Tucson

**Bond Funding:** $7,800,000

**Other Funding:** None Proposed

**Implementation Period:** 1

**Future Annual Operating & Maintenance Costs:** $15,000
<table>
<thead>
<tr>
<th>Scope:</th>
<th>This project includes construction of four through traffic lanes, multi-use lanes, outside curbs, storm drains, landscaping and noise mitigation where warranted. The median will be a two-way left-turn lane. The proposed cross section is similar to Ruthrauff Road, west of La Cholla Boulevard. This project will also include area drainage improvements and construction of one or more conveyance channels from Wetmore Road, north to the Rillito River.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benefit:</td>
<td>The proposed improvement will provide congestion relief, accident reduction and drainage benefits over a wide area. The project will reduce congestion and enhance safety along Wetmore Road. The estimated economic value of the improvements to traffic flow and reductions in accidents are $107.70 million. The benefit/cost ratio is 5.7:1.</td>
</tr>
<tr>
<td>Other Funding:</td>
<td>$11,200,000 (3,000,000 Urban Area HURF) (1,400,000 County HURF) (7,400,000 FED STP) (400,000 Impact Fee Funds)</td>
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<tr>
<td>Implementation Period:</td>
<td>1/2</td>
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<tr>
<td>Future Annual Operating &amp; Maintenance Costs:</td>
<td>$34,500</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>15) Project</th>
<th>DOT-15 - River Road, Thornydale Road to Shannon Road</th>
</tr>
</thead>
<tbody>
<tr>
<td>Location:</td>
<td>Marana, Tucson</td>
</tr>
<tr>
<td>Bond Funding:</td>
<td>$4,000,000</td>
</tr>
<tr>
<td>Scope:</td>
<td>This is part of the extension of River Road from La Cholla Boulevard, west to Thornydale Road. Project is planned to be a four-lane divided roadway with landscape medians, multi-use lanes, outside curbs, storm drains and landscaping and neighborhood noise mitigation. The right-of-way will support future expansion to six lanes, when warranted. The project will include box culverts or bridge structures to carry the Pegler Wash under River Road and into the Rillito River.</td>
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<td>Benefit:</td>
<td>This project provides regional transportation benefits by completing connections in the regional street system which provide alternate routes to Orange Grove Road and Ina Road for east west travel north of the Rillito River. The project will reduce congestion and enhance safety along Orange Grove and Ina Roads. The estimated economic value of the improvements to traffic flow and reductions in accidents are $25.70 million. The benefit/cost ratio is 3.1:1.</td>
</tr>
</tbody>
</table>
Other Funding: $4,400,000 (4,052,000 FED STP) (337,000 County HURF)

Implementation Period: 1/2

Future Annual Operating & Maintenance Costs: $30,000

16) Project: DOT-16 - River Road, Shannon Road to La Cholla Boulevard

Location: Unincorporated County

Bond Funding: $2,000,000

Scope: This project is an extension of River Road from its current terminus at La Cholla Boulevard to approximately Shannon Road, where it will link up with the River Road, Thornydale to Shannon Road extension. The proposed project is a four-lane divided roadway with landscape median, multi-use lane, outside curbs, storm drains, landscaping and neighborhood noise mitigation. The right-of-way will support widening to six lanes in the future, when warranted. The project will include box culverts to carry the Nanini Wash drainage under River Road into the Rillito River.

Benefit: This project provides regional transportation benefits when connected to the project to the west, completing connections in the regional road system which provide alternate routes to Orange Grove Road and Ina Road for east-west travel north of the Rillito River. The project will reduce congestion and enhance safety along Orange Grove and Ina Roads. The estimated economic value of the improvements to traffic flow and reductions in accidents are $35.98 million. The benefit/cost ratio is 5.7:1.

Other Funding: $4,300,000 (4,009,000 FED STP) (315,000 County HURF)

Implementation Period: 1/2

Future Annual Operating & Maintenance Costs: $42,000
DOT-17 - Valencia Road, Mark Road to Camino de la Tierra

Location: Unincorporated County

Bond Funding: $5,800,000

Scope: This project will widen Valencia Road to increase capacity and enhance safety. The roadway will have four travel lanes, multi-use lanes and raised landscape median, outside curbs, storm drains, edge landscaping and provision for pedestrians.

Benefit: This project will reduce traffic congestion and enhance safety along Valencia Road. The estimated economic value of the improvements to traffic flow and reductions in accidents are $32.65 million. The project benefit/cost ratio is 4.8:1.

Other Funding: $1,000,000 (1,000,000 Impact Fee Funds)

Implementation Period: 4

Future Annual Operating & Maintenance Costs: $30,000

DOT-18 - Cortaro Farms Road, Southern Pacific Railroad Crossing to Thornydale Road

Location: Unincorporated County, Marana

Bond Funding: $8,200,000

Scope: The proposed project consists of widening Cortaro Farms Road, adjusting the horizontal alignment at the railroad approach and correcting the grade over the railroad and the adjacent Cortaro-Marana Irrigation District canal. The project will have four traffic lanes, multi-use lanes, outside curbs, storm drains and landscaping. The median treatment will be either a raised landscape median or a median two-way left-turn lane, depending on further evaluation of local area access and circulation needs.

Benefit: This project will reduce traffic congestion and enhance safety along Cortaro Farms Road. The estimated economic value of the improvements to traffic flow and reductions in accidents are $8.05 million. The benefit/cost ratio is 0.8:1.

Other Funding: $2,000,000 (2,000,000 Impact Fee Funds)

Implementation Period: 3

Future Annual Operating & Maintenance Costs: $36,000
<table>
<thead>
<tr>
<th></th>
<th>Project</th>
<th>DOT-19 - Hartmann Lane North of Cortaro Farms Road</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Location:</td>
<td>Marana</td>
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<tr>
<td></td>
<td>Bond Funding:</td>
<td>$600,000</td>
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<td></td>
<td>Scope:</td>
<td>The proposed project will construct Hartman Lane</td>
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<td></td>
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<td>from Cortaro Farms Road to north of the Hardy</td>
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<td>Wash, connecting to the existing road that was</td>
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<td>built with the Countryside subdivisions. The</td>
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<td>roadway will be a four-lane divided road with</td>
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<td>median, which is consistent with the planned</td>
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<td></td>
<td>projects that were built for Countryside. The</td>
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<td></td>
<td></td>
<td>project will include outside curbs, storm drains,</td>
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<td></td>
<td>multi-use lanes and landscaping. A major portion</td>
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<td></td>
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<td>of the project is the construction of a box</td>
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<td></td>
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<td>culvert to carry Hardy Wash under Hartman Lane.</td>
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<td></td>
<td>Benefit:</td>
<td>The proposed project will improve circulation for</td>
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<td></td>
<td></td>
<td>the northwest area by providing additional</td>
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<td></td>
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<td>connections between the east west arterial</td>
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<td>roadways and provide alternate routes to the I-10</td>
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<td></td>
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<td>frontage roads and Camino de Oeste for area</td>
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<td>traffic. The estimated economic value of the</td>
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<td>improvements to traffic flow and reductions in</td>
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<td></td>
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<td>accidents are $0.72 million. The benefit/cost</td>
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<td></td>
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<td>ratio is 1.2:1.</td>
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<tr>
<td></td>
<td>Other Funding:</td>
<td>None Proposed</td>
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<tr>
<td></td>
<td>Implementation Period:</td>
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<td></td>
<td>Future Annual Operating &amp;</td>
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<tr>
<td></td>
<td>Maintenance Costs:</td>
<td>$15,000</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Project</th>
<th>DOT-20 - La Cholla Boulevard, Interstate-10 to Ruthrauff Road</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Location:</td>
<td>Unincorporated County, Tucson</td>
</tr>
<tr>
<td></td>
<td>Bond Funding:</td>
<td>$15,000,000</td>
</tr>
<tr>
<td></td>
<td>Scope:</td>
<td>Proposed project is part of an improvement for the entire</td>
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<td>La Cholla corridor to provide an additional transportation</td>
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<td></td>
<td>facility of regional significance to serve the northwest</td>
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<td>area. The proposed project includes a new interchange at</td>
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<td></td>
<td></td>
<td>I-10 to serve La Cholla Boulevard, just north of existing</td>
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<td></td>
<td>Prince Road, a new roadway from I-10 to Gardner Lane and</td>
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<td></td>
<td></td>
<td>widening of La Cholla Boulevard from Gardner Lane north</td>
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<td></td>
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<td>to Ruthrauff Road. The proposed project will have six</td>
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<td>through traffic lanes with raised landscape median, multi-use</td>
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<td></td>
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<td>lanes, outside curbs, storm drains and landscaping.</td>
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<td>Neighborhood noise mitigation will be incorporated in the</td>
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<td>vicinity of residential areas and the Flowing Wells Schools</td>
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<td></td>
<td></td>
<td>complex.</td>
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</tbody>
</table>
This project will provide additional regional access into the heavily developed northwest area. Additional freeway connection will allow for broader distribution of regional travel. The project will reduce congestion and enhance safety over a wide area. Since many existing facilities are affected, including I-10, quantitative estimates of benefits are unavailable at this time.

Other Funding: $1,500,000 (Urban Area HURF)
Implementation Period: 5
Future Annual Operating & Maintenance Costs: $39,000

Project DOT-21 - Thornydale Road, Orange Grove Road to Ina Road
Location: Unincorporated County, Marana
Bond Funding: $1,000,000
Scope: This project is the reconstruction and widening of this roadway to a six-lane divided road with raised median, multi-use lanes, outside curbs, landscaping and pedestrian facilities. This project will connect with the recently completed six-lane bridge over the Cañada del Oro Wash and will provide for widening of the existing box culvert carrying the Carmack Wash under Thornydale Road. Project includes noise and screening walls adjacent to the residential areas east of the road.
Benefit: The project will reduce traffic congestion and enhance safety along Thornydale Road. The estimated economic value of the improvements to traffic flow and reductions in accidents are $80.20 million. The benefit/cost ratio is 10.0:1.
Other Funding: $7,000,000 (Urban Area HURF)
Implementation Period: 2
Future Annual Operating & Maintenance Costs: $30,000

Project DOT-22 - Thornydale Road, Ina Road to Cortaro Farms Road
Location: Unincorporated County, Marana
Bond Funding: $1,000,000
Scope: The proposed project is the reconstruction and widening of Thornydale Road to a four-lane divided roadway with landscape median, multi-use lanes, outside curbs and storm drains. The roadway grading, storm drains, screen walls and pedestrian facilities will be located to allow for the expansion of this roadway to six-lanes when warranted in the future. This project includes the construction of a major trunk sewer. The project will include culvert structures to carry drainage under Thornydale Road.

Benefit: The project will reduce congestion and enhance safety along Thornydale Road. The estimated economic value of the improvements to traffic flow and reductions in accidents are $94.05 million. The benefit/cost ratio is 8.5:1.

Other Funding: $10,000,000 (6,000,000 Urban Area HURF) (4,000,000 County HURF)

Implementation Period: 1

Future Annual Operating & Maintenance Costs: $22,500

23) Project DOT-23 - Thornydale Road, Cortaro Farms Road to Linda Vista Boulevard

Location: Unincorporated County

Bond Funding: $1,000,000

Scope: This project will widen existing Thornydale Road to a four-lane divided cross section with raised landscape median, outside curbs, multi-use lanes, storm drains, landscaping and noise mitigation and screening adjacent to residential areas where warranted. The project will improve access and safety in the vicinity of Arthur Pack Regional Park and Mountain View High School. The project will include a drainage structure to carry Hardy Wash and other transverse drainages under Thornydale Road.

Benefit: The project will reduce traffic congestion and enhance safety along Thornydale Road. The estimated economic value of the improvements to traffic flow and reductions in accidents are $51.44 million. The benefit/cost ratio is 6.9:1.

Other Funding: $6,500,000 (800,000 Urban Area HURF) (5,700,000 County HURF)

Implementation Period: 5

Future Annual Operating & Maintenance Costs: $22,500
<table>
<thead>
<tr>
<th>Project</th>
<th>DOT-24 - Mainsail Boulevard and Twin Lakes Drive, Twenty-Seven Wash Vicinity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Location:</td>
<td>Unincorporated County (Catalina)</td>
</tr>
<tr>
<td>Bond Funding:</td>
<td>$2,700,000</td>
</tr>
<tr>
<td>Scope:</td>
<td>The proposed improvements include construction of Mainsail Boulevard as a two-lane road across Twenty-seven Wash between Oracle Highway and Twin Lakes Drive/Forecastle Avenue. The extension of Twin Lakes north of Mainsail to Tortolita Street will also be considered as part of this project. The improvements will consist of a two-lane roadway and box culvert structure to carry the wash under the road. Proposed improvements will provide improved all-weather access to Catalina and will provide alternatives to residential streets for access from existing neighborhoods out to Oracle Highway.</td>
</tr>
<tr>
<td>Benefit:</td>
<td>The project benefits include revision of connections in the collector street system in Catalina per the Lago del Oro Plan and provision of all-weather access for major portions of the community. The new connections will allow traffic to divert from local neighborhood streets to the collector roadway system. The project will also improve response for emergency vehicles.</td>
</tr>
<tr>
<td>Other Funding:</td>
<td>None Proposed</td>
</tr>
<tr>
<td>Implementation Period:</td>
<td>3/4</td>
</tr>
<tr>
<td>Future Annual Operating &amp; Maintenance Costs:</td>
<td>$21,000</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Project</th>
<th>DOT-25 - Interstate 19 Southbound Frontage Road at Continental Road</th>
</tr>
</thead>
<tbody>
<tr>
<td>Location:</td>
<td>Unincorporated County (Green Valley)</td>
</tr>
<tr>
<td>Bond Funding:</td>
<td>$1,000,000</td>
</tr>
<tr>
<td>Scope:</td>
<td>The project will realign the southbound Frontage Road to connect with the recently improved intersection of Continental Road at Continental Plaza. The project will separate the southbound on and off ramps at I-19 from the Frontage Road intersection to improve safety and allow for future signalization of the ramp intersections. The project will consist of construction of a new two-lane road south of Continental Road on new alignment to connect with the existing Frontage Road. Provision for the connection was included in the design and construction of the traffic signal at Continental Plaza.</td>
</tr>
</tbody>
</table>
This project will reduce congestion and improve safety by providing the signalized access between the Frontage Road and Continental Road. The increased separation will provide for better operation of the interchange intersections with Continental Road and will reduce the number of traffic signals that would have to be installed along Continental Road in the future as traffic volumes in this area of Green Valley increase.

Other Funding: $500,000 (ADOT)
Implementation Period: 1
Future Annual Operating & Maintenance Costs: $4,500

26) Project: DOT-26 - Abrego Drive at Interstate-19 Northbound Frontage Road
Location: Sahuarita
Bond Funding: $200,000
Scope: This project is connected with a developer-delegated project to extend Abrego Drive south from Nogales Highway (B-19) to Duval Road. This project is to provide additional funding for the revision of the existing Frontage Road intersection with Abrego Drive to allow for a greater operational flexibility of the I-19 Duval Mine Road interchange.
Benefit: This project will reduce the number of intersections along Nogales Highway between the I-19 ramps and Abrego Drive and will allow for Frontage Road access to Abrego Drive until such time as Abrego Drive is completely constructed.
Other Funding: None Proposed
Implementation Period: 1
Future Annual Operating & Maintenance Costs: No Increase
27)  **Project**  
DOT-27 - River Road at Ventana Wash  

**Location:** Unincorporated County  

**Bond Funding:** $1,900,000  

**Scope:** The proposed project is the replacement of the existing bridge carrying River Road over Ventana Wash. The existing bridge is structurally deficient and functionally obsolete and meets federal requirements for replacement. The new bridge will provide for two traffic lanes, shoulders and a pedestrian facility. The bridge will be located to allow for widening of River Road in the future when warranted.  

**Benefit:** The existing inadequate bridge will be replaced by a new structure with greater load carrying capacity, width clearance and safety. Provision for bicycles and pedestrians will be included with the new bridge structure.  

**Other Funding:** $600,000 (Federal Bridge Funds)  

**Implementation Period:** 2/3  

**Future Annual Operating & Maintenance Costs:** No Increase  


28)  **Project**  
DOT-28 - Speedway Boulevard, Camino Seco to Houghton Road  

**Location:** Tucson  

**Bond Funding:** $8,000,000  

**Scope:** This project will reconstruct and widen Speedway Boulevard to a four-lane divided roadway with raised landscape median, multi-use lanes, outside curbs, storm drains and landscaping.  

**Benefit:** This project will reduce traffic congestion and enhance safety along Speedway Boulevard. The estimated economic value of the improvements to traffic flow and reductions in accidents are $32.85 million. The benefit/cost ratio is 4.1:1.  

**Other Funding:** None Proposed  

**Implementation Period:** 4 & 5  

**Future Annual Operating & Maintenance Costs:** $30,000
29) **Project**  
**DOT-29 - Houghton Road, Speedway Boulevard to Tanque Verde Road**

**Location:** Unincorporated County, Tucson  
**Bond Funding:** $20,000,000  
**Scope:** This project is the widening of Houghton Road to a four-lane cross section with multi-use lanes, curbs, storm drains and outside landscaping. Additional parallel bridge structures will be built over Agua Caliente Wash and Tanque Verde Creek.  
**Benefit:** The project will reduce congestion and enhance safety along Houghton Road.  
**Other Funding:** None Proposed  
**Implementation Period:** 5 through 7  
**Future Annual Operating & Maintenance Costs:** $60,000

30) **Project**  
**DOT-30 - Catalina Highway, Tanque Verde Road to Houghton Road**

**Location:** Unincorporated County, Tucson  
**Bond Funding:** $6,200,000  
**Scope:** This project is the widening of Catalina Highway to a four-lane roadway with multi-use lanes and improved roadside drainage. The median treatment will be either a raised landscape median or a two-way median left-turn lane, depending on further evaluation of local area access and circulation requirements. Residential neighborhood screening and noise mitigation will be incorporated as required.  
**Benefit:** The project will reduce congestion and enhance safety along Catalina Highway. The estimated economic value of the improvements to traffic flow and reductions in accidents are $9.35 million. The benefit/cost ratio is 1.2:1.  
**Other Funding:** $1,500,000 (Impact Fee Funds)  
**Implementation Period:** 1  
**Future Annual Operating & Maintenance Costs:** $25,500
31) Project: DOT-31 - Tanque Verde Road, Catalina Highway to Houghton Road
Location: Unincorporated County, Tucson
Bond Funding: $7,100,000
Scope: The project is the widening of Tanque Verde Road to four lanes with multi-use lanes, improved roadside drainage, landscaping and neighborhood screening and noise mitigation where required. The median treatment will be either a raised landscape median or a median two-way left-turn lane pending further evaluation of local area access and circulation needs. Project will include a drainage structure to carry Castle Rock Wash under Tanque Verde Road.
Benefit: This project will reduce congestion and enhance safety along Tanque Verde Road. The estimated economic value of the improvements to traffic flow and reductions in accidents are $7.21 million. The benefit/cost ratio is 1.0:1.
Other Funding: None Proposed
Implementation Period: 2
Future Annual Operating & Maintenance Costs: $25,500

32) Project: DOT-32 - Kolb Road, Sabino Canyon Road to Sunrise Drive
Location: Unincorporated County
Bond Funding: $10,000,000
Scope: The proposed project is a reconstruction and widening of Kolb Road to a four-lane roadway with multi-use lanes, curbs, storm drains, outside landscaping and neighborhood screening and noise mitigation. The median treatment will consist of a raised landscape median or a median two-way left-turn lane pending further evaluation of local area access and circulation needs.
Benefit: The project will reduce congestion and enhance safety along Kolb Road.
Other Funding: $500,000 (Urban Area HURF)
Implementation Period: 4
Future Annual Operating & Maintenance Costs: $31,500
<table>
<thead>
<tr>
<th>Project</th>
<th>DOT-33 - Kolb Road at Sabino Canyon Road</th>
</tr>
</thead>
<tbody>
<tr>
<td>Location</td>
<td>Unincorporated County</td>
</tr>
<tr>
<td>Bond Funding</td>
<td>$3,400,000</td>
</tr>
<tr>
<td>Scope:</td>
<td>Proposed project is the widening and realignment of the Sabino Canyon Road/Kolb Road intersection. The project includes widening Sabino Canyon Road from north of Old Sabino Canyon road, the current end of the four-lane roadway, through the Kolb Road intersection. The culvert carrying Ventana Wash under Kolb Road north of Sabino Canyon Road will be reconstructed and lengthened as part of this project. In addition, improvements will be made to the Ventana Wash channel to reduce breakout and retain the 100 year flow. The intersection will be signalized with the improvement.</td>
</tr>
<tr>
<td>Benefit:</td>
<td>The project will reduce congestion and enhance safety along Kolb Road. The estimated economic value of the improvements to traffic flow and reductions in accidents are $20.49 million. The benefit/cost ratio is 6.0:1.</td>
</tr>
<tr>
<td>Other Funding:</td>
<td>None Proposed</td>
</tr>
<tr>
<td>Implementation Period:</td>
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</tr>
<tr>
<td>Future Annual Operating &amp; Maintenance Costs:</td>
<td>$6,000</td>
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</table>

<table>
<thead>
<tr>
<th>Project</th>
<th>DOT-34 - Camino del Sol, Continental Road to Ocotillo Wash</th>
</tr>
</thead>
<tbody>
<tr>
<td>Location</td>
<td>Unincorporated County (Green Valley)</td>
</tr>
<tr>
<td>Bond Funding</td>
<td>$2,500,000</td>
</tr>
<tr>
<td>Scope:</td>
<td>This project is the construction of a new Camino del Sol/West Parkway, west of the Canoa Land Grant, from existing Camino del Sol in the vicinity of Ocotillo Wash, north to Continental Road. In addition, improvements to Continental Road from the new Camino del Sol intersection east to existing Camino del Sol will be constructed. The project will be constructed initially as a two-lane roadway with capability for future expansion when warranted. The project corridor will be substantially wider than that typically required for the roadway to allow for increased buffering from residential areas east of the roadway and to provide for pedestrian and bicycle facilities off the road. The project will allow for future development of a parkway from Ocotillo Wash north to Duval Mine Road.</td>
</tr>
</tbody>
</table>
Benefit: Proposed project will obviate the need to widen existing Camino del Sol south of Continental Road. This section of Camino del Sol has a constrained right-of-way and is developed with residential structures having direct access to the roadway. The project will reduce congestion and enhance safety along Camino del Sol.

Other Funding: None Proposed

Implementation Period: 1/2

Future Annual Operating & Maintenance Costs: $25,500

35) Project

DOT-35 - Abrego Drive at Drainageway No. 1/Box Culvert

Location: Town of Sahuarita

Bond Funding: $600,000

Scope: This project is the construction of a box culvert to carry Abrego Drive over Drainageway No. 1 north of existing Duval Road. The box culvert will allow the connection of Abrego Drive all the way north to Nogales Highway (B-19). The connections of Abrego Drive north and south of the Drainage way will allow for the existing northbound I-19 Frontage Road north of Duval Road to be relocated or abandoned as this new connection will provide access to all existing development south of Duval Road that currently has access via the Frontage Road.

Benefit: Proposed project will enhance area circulation by allowing Abrego Drive to extend north to Nogales Highway, reduce the number of intersections along Nogales Highway between I-19 and Abrego Drive, to allow for access to the highway at intersections appropriately spaced for traffic signals and to improve the geometry of the intersections and approaches to Nogales Highway from the south.

Other Funding: None Proposed

Implementation Period: 1

Future Annual Operating & Maintenance Costs: Minimal Cost Increase
**Project**

**DOT-36 - Camino del Sol/West Parkway, Continental Road to Duval Mine Road**

- **Location:** Unincorporated County (Green Valley)
- **Bond Funding:** $450,000
- **Scope:** Proposed project is the acquisition of right-of-way only for the future construction of a Camino del Sol extension/West Parkway on existing state lands west of developed Green Valley. The right-of-way acquisition will be sufficiently wide to accommodate the planned future road, separate pedestrian and bicycle facilities, linear park features and separation from existing and planned neighborhoods. Exact width will be determined through future study.
- **Benefit:** The benefit of the right-of-way acquisition at this time is to assure that there is a complete right-of-way for future construction of the road, to assist area developers to appropriately plan and site their projects to account for this future roadway and to provide an opportunity for construction of the road and parkway elements with future funding.
- **Other Funding:** None Proposed
- **Implementation Period:** 3/4
- **Future Annual Operating & Maintenance Costs:** None

**Project**

**DOT-37 - Interstate-19 Northbound Frontage Road, Canoa TI to Continental TI**

- **Location:** Unincorporated County (Green Valley)
- **Bond Funding:** $900,000
- **Scope:** The proposed project is the construction of 1.2 miles of frontage road that were not built with the original I-19 construction. This segment of Frontage Road crosses two major drainages; the Demitri and Esperanza Washes. These wash crossings will require bridge structures. The project will be a two-lane road with improved shoulders.
- **Benefit:** The project will complete the linkages in the frontage road system from Continental Road south to Arivaca Junction and Arivaca Road. The Frontage Road will provide additional access and circulation opportunities for the southerly portion of the Green Valley community and will provide greater operational flexibility for I-19. The Frontage Road connection will also allow for a better balance of traffic demand between the southbound and northbound frontage roads south of Continental Road.
Other Funding: $1,000,000  (ADOT)
$1,600,000  (Developer Funded)

Implementation Period:  2

Future Annual Operating & Maintenance Costs:  $18,000

38) Project  DOT-38 - Pistol Hill Road, Colossal Cave Road to Old Spanish Trail
Location:  Unincorporated County
Bond Funding:  $1,000,000
Scope:  Project is the construction of Pistol Hill Road as a two-lane road with improved shoulders. The right-of-way for the proposed road was recently acquired from the state land department. The new roadway will provide for additional connections in the east end of the Rincon Valley, will allow traffic to detour around the Colossal Cave Park area and will provide an alternate to the most seriously geometrically constrained sections of Colossal Cave Road and Old Spanish Trail. These roadway segments have respective accident rates 3.5 and 2.8 times greater than the system average.

Benefit:  The project will improve roadway safety by providing an alternative to sections of roadway with severe horizontal alignment and dips. The new road will also be located outside of the Colossal Cave Park and will reduce through traffic within the park area.

Other Funding:  None Proposed
Implementation Period:  1
Future Annual Operating & Maintenance Costs:  $22,500

39) Project  DOT-39 - Valencia Road, Interstate-19 to South 12th Avenue
Location:  Tucson
Bond Funding:  $900,000
Benefit:
The project includes the widening of Valencia Road to six lanes from I-19 to South 12th Avenue, provision of multi-use lanes, drainage improvements, sidewalks, arterial street lighting and safety improvements for intersecting streets. The project will match the reconstruction of the Valencia Road interchange to be completed by Arizona Department of Transportation.

The project will reduce traffic congestion and enhance roadway safety for vehicles, pedestrians and bicyclists. Transit operations will also be improved in this presently constrained corridor. The estimated economic value of the improvements to traffic flow and reductions in accidents are $10.94 million. The benefit/cost ratio is 12.2:1.

Other Funding: None Proposed

Implementation Period: 1

Future Annual Operating & Maintenance Costs: $6,000

Project: Project includes the widening of Valencia Road to six lanes from I-19 to South 12th Avenue, provision of multi-use lanes, drainage improvements, sidewalks, arterial street lighting and safety improvements for intersecting streets. The project will match the reconstruction of the Valencia Road interchange to be completed by Arizona Department of Transportation.

Benefit:
The project will reduce traffic congestion and enhance roadway safety for vehicles, pedestrians and bicyclists. Transit operations will also be improved in this presently constrained corridor. The estimated economic value of the improvements to traffic flow and reductions in accidents are $10.94 million. The benefit/cost ratio is 12.2:1.

Other Funding: None Proposed

Implementation Period: 1

Future Annual Operating & Maintenance Costs: $6,000

Project DOT-40 - Grant Road, Oracle Road to Park Avenue

Location: Tucson

Bond Funding: $10,000,000

Scope: The proposed project is the reconstruction and widening of Grant Road to six lanes. The project will have landscaped median, storm drains, pedestrian facilities, multi-use lanes, arterial street lighting and other urban street amenities.

Benefit: The project will reduce congestion and enhance safety along Grant Road. The estimated economic value of the improvements to traffic flow and reductions in accidents are $95.03 million. The benefit/cost ratio is 9.5:1.

Other Funding: None Proposed based on bond funding only. At present No total cost estimate available.

Implementation Period: 2/3

Future Annual Operating & Maintenance Costs: $21,000
41) Project | DOT-41 - 22nd Street, Interstate-10 to Park Avenue  
| Location: Tucson  
| Bond Funding: $10,000,000  
| Scope: The project will reconstruct and widen 22nd Street from I-10 to Park Avenue to a six-lane divided roadway with landscape median, multi-use lanes, curbs, storm drains, sidewalks, arterial street lighting and other urban roadway amenities. A significant portion of the project will be devoted to improving roadway and area drainage which presently makes 22nd Street impassible or more dangerous for travel in rainy weather.  
| Benefit: The project will reduce congestion and enhance safety along 22nd Street. The estimated economic value of the improvements to traffic flow and reductions in accidents are $76.28 million. The benefit/cost ratio is 4.51.  
| Other Funding: $7,000,000 (City of Tucson)  
| Implementation Period: 2/3  
| Future Annual Operating & Maintenance Costs: $21,000

42) Project | DOT-42 - South Tucson, 6th Avenue and Various Locations  
| Location: South Tucson  
| Bond Funding: $5,300,000  
| Scope: The proposed project is primarily to reconstruct existing roadways, improve area drainage and improve connections to the 6th Avenue corridor to enhance circulation and access in the South 6th Avenue community. The project will include improvements to the street frontage to enhance alternate modes use as well as improve the urban design features of this main roadway through South Tucson.  
| Benefit: The project will improve circulation and access within South Tucson particularly during wet weather, as well as enhance the appearance of the community and the routing for bicycles and buses. The project will also reduce maintenance costs on many of the streets in the community by reducing on-street drainage and replacing deteriorated pavements.
Other Funding: None Proposed
Implementation Period: 1 through 5
Future Annual Operating & Maintenance Costs: No Increase

43) Project  DOT-43 - 12th Avenue, Veterans Boulevard to Los Reales Road
Location: Tucson
Bond Funding: $9,000,000
Scope: The proposed improvements will improve the function of South 12th Avenue for alternate modes and provide for improved area and roadway drainage and provide streetscape improvements for the adjacent community. The geometry of the intersecting streets will be improved for efficiency, safety and drainage.
Benefit: The project will improve local area circulation and access through improved drainage and will reduce maintenance costs with enhanced roadway pavements. The improvements will increase the value of adjacent properties by enhancing the streetscape elements in this corridor.
Other Funding: None Proposed
Implementation Period: 1 through 3
Future Annual Operating & Maintenance Costs: $60,000

44) Project  DOT-44 - Orange Grove Road, Thornydale Road to Oracle Road
Location: Unincorporated County, Marana
Bond Funding: $20,000,000
Scope: The project consists of constructing a four and six-lane roadway from Thornydale Road to Oracle Road. The Advance Planning Report for Orange Grove Road, approved by the Board of Supervisors in 1992 called for six lanes from La Cholla Boulevard to Oracle Road and four lanes from Thornydale Road to La Cholla. The cross section requirements will be reviewed during the project initiation stages to determine if the full six lanes from Thornydale to La Cholla should be
built with the initial project. The project will include a raised landscape median, multi-use lanes, outside curbs and storm drains, provision for pedestrians and screening and noise mitigation for adjacent residential areas where required. Reinforced box culverts or short span bridges will be constructed where the Pegler Wash, Casas Adobes Wash and the Roller Coaster Wash cross Orange Grove Road, along with other transverse drainage as needed.

Benefit: The project will reduce congestion and enhance safety along Orange Grove Road and at the intersecting street intersections. The estimated economic value of the improvements to traffic flow and reductions in accidents are $295.48 million. The benefit/cost ratio is 12.7:1.

Other Funding: $3,180,000 (Urban Area HURF)

Implementation Period: 3 through 5

Future Annual Operating & Maintenance Costs: $126,000

45) Project DOT-45 - La Cholla Boulevard, Ruthrauff Road to Ina Road

Location: Unincorporated County

Bond Funding: $24,000,000

Scope: The project consists of construction of a six-lane La Cholla Boulevard from Ruthrauff Road to Ina Road. Project will include a raised landscape median, multi-use lanes, outside curbs, storm drains and pedestrian facilities and neighborhood screening and noise mitigation where required. This project also includes a new Rillito River bridge and reinforced concrete box culverts or short span bridges at the Nanini Wash and Pegler Wash crossings. Additional provisions will be made for transverse drainage as required.

Benefit: The project will reduce congestion and enhance safety along existing La Cholla Boulevard. This project when linked with the project to the south (I-10 to Ruthrauff Road) will provide enhanced facility of regional significance for access into the northwest area. The estimated economic value of the improvements to traffic flow and reductions in accidents are $249.85 million. The benefit/cost ratio is 7.3:1.

Other Funding: $10,000,000 (Urban Area HURF)

Implementation Period: 4 through 6

Future Annual Operating & Maintenance Costs: $90,000
46) Project

DOT-46 - Craycroft Road, River Road to Sunrise Drive

Location: Unincorporated County

Bond Funding: $12,000,000

Scope: The project will reconstruct and widen existing Craycroft Road to a four-lane divided roadway with raised landscape median, multi-use lanes, outside curbs, storm drains, landscaping and neighborhood screening and noise mitigation as required. The project will include new culverts for the Craycroft Wash and other transverse drainage as necessary.

Benefit: The project will reduce congestion and enhance safety along Craycroft Road. The estimated economic value of the improvements to traffic flow and reductions in accidents are $82.37 million. The benefit/cost ratio is 6.6:1.

Other Funding: $550,000 (Impact Fee Funds)

Implementation Period: 2/3

Future Annual Operating & Maintenance Costs: $36,000

47) Project

DOT-47 - Sunrise Drive, Craycroft Road to Kolb Road

Location: Unincorporated County

Bond Funding: $12,000,000

Scope: The project will widen Sunrise Drive to four lanes with multi-use lanes, drainage improvements, landscaping and neighborhood screening and noise mitigation as required. The median treatment will be a raised landscape median or a median two-way left-turn lane pending further evaluation of local area access and circulation requirements. The proposed project is intended to retain the existing outer limits of the cut and fill slopes along Sunrise Drive, therefore will incorporate structural retaining walls as necessary. Needed revisions or improvements to transverse drainage will be included with the project.

Benefit: The project will reduce congestion and enhance safety along Sunrise Drive. The estimated economic value of the improvements to traffic flow and reductions in accidents are $41.84 million. The benefit/cost ratio is 3.2:1.
Other Funding: $1,000,000 (Urban Area HURF)

Implementation Period: 3/4

Future Annual Operating & Maintenance Costs: $31,500

**48) Project**  
DOT-48 - Duval Mine Road, La Cañada Drive to Abrego Drive

Location: Sahuarita

Bond Funding: $2,000,000

Scope: The project will widen and improve Duval Mine Road in the vicinity of the I-19 interchange. Project includes widening existing roadway and the overpass structure at I-19, modifying the ramp geometry and improving the intersection connections at La Cañada Drive and Abrego Drive. The project will include provisions for improved drainage, landscaping, pedestrian and bicycle movements across the freeway and related elements. The median treatment is yet to be determined pending evaluation of local area access and circulation needs and a structural evaluation of the existing overpass.

Benefit: The project will reduce congestion and enhance safety along Duval Mine Road in the vicinity of this interchange.

Other Funding: $10,000,000 (3,000,000 ADOT)  
(1,500,000 Impact Fee Funds)  
(5,500,000 Urban Area HURF)

Implementation Period: 2 through 4

Future Annual Operating & Maintenance Costs: $22,500

**49) Project**  
DOT-49 - Valencia Road, Mission Road to Interstate-19

Location: Unincorporated County, Tucson

Bond Funding: $4,000,000

Scope: The project will widen Valencia Road from four to six lanes between Mission Road and the freeway interchange. The interchange will be widened under a separate project by Arizona Department of Transportation. The existing Santa Cruz River bridge was built to accommodate a six-lane roadway and will be retained with this project. Project will include multi-use lanes, curbs, storm drains, landscaping and provisions for pedestrians.
Benefit: The project will reduce congestion and enhance safety along Valencia Road. The estimated economic value of the improvements to traffic flow and reductions in accidents are $49.22 million. The benefit/cost ratio is 12.3:1.

Other Funding: None Proposed

Implementation Period: 1

Future Annual Operating & Maintenance Costs: $27,000

50) Project: DOT-50 - Kinney Road, Ajo Way to Bopp Road

Location: Unincorporated County

Bond Funding: $3,800,000

Scope: The project will widen Kinney Road to four lanes with improved shoulders, roadside drainage and landscaping. The median treatment will be either a raised landscape median or a two-way median left-turn lane pending further evaluation of local area access and circulation requirements.

Benefit: The project will reduce congestion and enhance safety along Kinney Road. The estimated economic value of the improvements to traffic flow and reductions in accidents are $4.81 million. The benefit/cost ratio is 1.2:1.

Other Funding: $200,000 (Impact Fee Funds)

Implementation Period: 3/4

Future Annual Operating & Maintenance Costs: $9,000

51) Project: DOT-51 - La Cañada/Las Quintas Highway Drainage Improvements

Location: Sahuarita

Bond Funding: $1,500,000

Scope: Proposed project consists of transverse and parallel drainage improvements along La Cañada Drive and Las Quintas to provide improved roadway drainage, to alleviate ponding and drainage diversions within existing neighborhoods and to increase roadway safety.
Benefit: The project will maintain traversable roadways during wet weather and alleviate roadway-induced drainage problems in the adjacent neighborhoods.

Other Funding: None Proposed

Implementation Period: 2

Future Annual Operating & Maintenance Costs: No Increase

52) Project: DOT-52 - Palo Verde Road, Interstate-10 to Veterans Memorial Interchange at Southern Pacific Railroad

Location: Unincorporated County

Bond Funding: $4,400,000

Scope: The project will widen Palo Verde Road to six lanes, multi-use lanes, curbs, storm drains, pedestrian facilities and other urban roadway amenities. The median treatment will be either a raised landscape median or a two-way median left-turn lane pending further evaluation of local area access and circulation needs. The improvements will increase capacity and safety of the roadway and will define and better control access to the abutting commercial properties.

Benefit: The project will largely benefit smooth traffic flow for vehicles entering and exiting Palo Verde Boulevard and provision of alternate modes including bicycles and public transit. The additional roadway capacity is essentially to serve traffic entering and exiting the roadway within the project limits. The project will provide some congestion reduction and will reduce traffic accidents. The estimated economic value of the improvements to traffic flow and reductions in accidents are $6.02 million. The benefit/cost ratio is 1.4:1.

Other Funding: None Proposed

Implementation Period: 5

Future Annual Operating & Maintenance Costs: $27,000

Location: Unincorporated County

Bond Funding: $1,100,000

Scope: Proposed project is to reconstruct the intersection of Nogales Highway-Old Tucson/Nogales Highway to eliminate adverse intersection angles. The project will also improve the vertical alignment of the Old Tucson/Nogales Highway over the Southern Pacific Railroad crossing and provide upgraded traffic control at the intersection and railroad.

The local area is subject to significant drainage problems associated with the roads. The project will construct or improve roadside drainage ditches parallel to Summit Street, McKain Road and Old Tucson/Nogales Highway within the existing right-of-way to increase conveyance towards the existing culverts under the railroad. Small detention facilities will also be constructed east of the Summit-Old Tucson/Nogales neighborhood and McKain Road/Terry Lane intersection to control the magnitude of roadside drainage and to eliminate ponding within these intersections.

Benefit: Project benefits will accrue to local neighborhoods with a safer access, particularly during wet weather conditions. The roadway construction will reduce the expense of operation and maintenance as the intersections collect substantial sediments and debris during wet weather conditions. The improved intersection alignment will allow for safer access onto Nogales Highway (B-19).

Other Funding: None Proposed

Implementation Period: 2

Future Annual Operating & Maintenance Costs: No Increase

54) Project: DOT-54 - Mt. Lemmon Shuttle

Location: Unincorporated Pima County, Tucson

Bond Funding: $1,500,000
The Mt. Lemmon Shuttle is conceived to provide public transit access from the vicinity of the Bear Canyon Library to Mt. Lemmon and Summerhaven and to Sabino Canyon Recreation Area. The Shuttle will link with Sun Tran Route 9 at Bear Canyon. This service will operate four trips, six days a week from Bear Canyon to Summerhaven and from Bear Canyon to Sabino Canyon Recreation Area. The Bond funding will provide for turnouts and other facilities adjacent to the roadways to allow the transit to operate safely along these two-lane roads. Additional funding in the form of operating subsidies, equipment and vehicle acquisition grants and similar non-highway related expenses will be sought from other sources.

Benefit: Project benefits include providing general public transportation access to public recreation areas and reducing the number of vehicles on Mt. Lemmon Highway, which will reduce demand for restricted parking areas.

Other Funding: Federal and state transit funding

Implementation Period: 1

Future Annual Operating & Maintenance Costs: To be determined

55) Project DOT-55 - Golf Links Road, Bonanza Avenue to Houghton Road

Location: Tucson

Bond Funding: $2,500,000

Scope: The proposed project consists of widening 0.5 miles of Golf Links Road to four lanes with a raised landscape median, multi-use lanes, curbs, storm drains, outside landscaping and other urban street features. This project will link with another project to be built entirely by the City of Tucson. The improvements will increase capacity and safety of the roadway and will define and better control access to abutting properties.

Benefits: The project will reduce congestion and enhance safety along Golf Links Road. The estimated economic value of the improvements to traffic flow and reductions in accidents are $2.23 million. The benefit/cost ratio is 0.9:1.

Other Funding: None Proposed

Implementation Period: 1

Future Annual Operating & Maintenance Costs: $15,000
<table>
<thead>
<tr>
<th>Project</th>
<th>DOT-56 - Broadway Boulevard, Euclid Avenue to Campbell</th>
</tr>
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<tbody>
<tr>
<td>Location:</td>
<td>Tucson</td>
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<tr>
<td>Bond Funding:</td>
<td>$15,000,000</td>
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<tr>
<td>Scope:</td>
<td>The proposed project will widen Broadway Boulevard to eight lanes from Euclid Avenue to Campbell, approximately one mile. Proposed improvements are consistent with earlier Broadway Corridor studies and the recently completed portion of Broadway Boulevard, between Euclid Avenue and Toole Avenue, east and west of the Southern Pacific Railroad overpasses. The project will have a landscape median, multi-use lanes, storm drains and other urban arterial features. The proposed project will replace the current five-lane section, which operates with a reversible median lane during peak hours, with a contemporary urban arterial.</td>
</tr>
<tr>
<td>Benefit:</td>
<td>The project will reduce congestion and enhance safety along Broadway Boulevard, as well as provide significant opportunities to revise the urban streetscape and development pattern along Tucson's &quot;Main Street.&quot; The estimated economic value of the improvements to traffic flow and reductions in accidents are $172.85 million. The benefit/cost ratio is 4.9:1.</td>
</tr>
<tr>
<td>Other Funding:</td>
<td>$9,000,000 (City of Tucson)</td>
</tr>
<tr>
<td>Implementation Period:</td>
<td>6</td>
</tr>
<tr>
<td>Future Annual Operating &amp; Maintenance Costs:</td>
<td>$60,000</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Project</th>
<th>DOT-57 - Safety Improvements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Location:</td>
<td>Various</td>
</tr>
<tr>
<td>Bond Funding:</td>
<td>$19,000,000</td>
</tr>
<tr>
<td>Scope:</td>
<td>The HURF Revenue Bond includes $19 million for presently undesignated safety improvements that would be implemented over the course of the bond program. Projects to be funded under this category are traffic safety improvements that are not included in roadways proposed for major improvements. The Department of Transportation publishes annual reports on the traffic accident and safety condition of the unincorporated roadway system. Improvements to be funded with bonds could include traffic signal installations, corrections of offset intersection, installation of left turn lanes, minor improvements to horizontal and vertical alignments to improve sight distance and maintain vehicle control, and similar types of specifically targeted safety projects. Safety projects will be proposed to the Board of Supervisors bi-annually to be funded from the sale of bonds. Specific projects will be selected by the Board for incorporation into the annual Capital Improvement Program.</td>
</tr>
</tbody>
</table>
Benefits: Previous Pima County General Obligation Bonds have included specific amounts targeted to safety improvements. These previous allocations have demonstrated substantial safety benefits. Fifty locations were improved with traffic safety bond funds authorized in the 1979 and 1980 bond elections. The overall accident reduction from both highway segment and intersection improvements was 26.3 percent (source "Evaluation of the Traffic Accident Experience of Completed Traffic Safety Projects Financed with 1979 and 1980 Bond Issue Funds" Traffic Engineering Division, Pima County Department of Transportation, February 1990).

Other Funding: None proposed

Implementation Period: 1 through 6

Future Annual Operating & Maintenance Costs: To be determined

V. Reliance on Other Funding for Project Implementation

As identified in Section IV previously, implementation of all projects proposed for improvement that may be authorized at the November 4, 1997, County Highway User Revenue Bond special election will cost more than $350 million of County Highway User Revenue Bonds to complete. Total project completion will take an additional $120 million. Many of the funds necessary are available to the County through federal aid revenue sharing, imposed development impact fees relating to transportation, or use of urban area HURF funds, which have historically been referred to as 15 Percent Funds. In addition, some County Highway User Revenue Funds have been programmed for use on some of these projects.

Below is a discussion of federal funds, urban area HURF funds, and Pima County impact fees, with an estimate of revenues that can reasonably be expected to be available to Pima County for expenditure over the ten years of the Transportation Bond Improvement Plan and the current estimates of allocation of said funds to specific projects. The additional funding identified is an essential element of program completion.

Federal Funds ($38 million) - A number of federal aid highway program categories can be utilized to supplement bond funding for the projects listed. The projection of $38 million assumes that 40 percent of the ten year federal funds will be available to Pima County for expenditure. The approved Transportation Bond Improvement Plan allocates $15 million to specific projects. These funds will vary depending upon future federal legislation. At present a highway funding bill commonly called the Intermodal Surface Transportation Efficiency Act (ISTEA) is scheduled to expire this year. The bill may be continued for another year pending major legislative revisions to federal highway funding legislation. Revisions now under consideration would increase the appropriations to surface transportation. Therefore, it is probable that future federal aid appropriations to Pima County and jurisdictions will increase.

Urban Area HURF ($90 million) - The urban area HURF was redefined in the same legislation that granted Pima County HURF equity. Previous to this legislation these funds were commonly referred to as 15 Percent HURF Funds allocated to the two urban regions of the State. As of June 1997, urban area HURF or 15 Percent Funds have been spent in the following amounts within the following jurisdictions.
As can be seen, most of the urban area funds have been spent within the City of Tucson. Allocation of a portion of this funding source to complete bond projects assumes that 60 percent of urban area HURF will be available for expenditure by Pima County. The approved Transportation Bond Improvement Plan allocates $53 million of these funds for specific projects.

Transportation Related Impact Fees ($40 million) - In order to save the taxpayers money, and to ensure that new development pays its fair share, Pima County now collects transportation impact fees from the unincorporated area of Pima County. These impact fees are collected from various benefit areas. These benefit areas all have roadway improvement projects identified in Section IV. Therefore, it is reasonable to allocate impact fees to these specific project areas. It is estimated that impact fees collected over the next ten years will be approximately $40 million. The approved Transportation Bond Improvement Plan allocates $13 million of these funds to specific projects; the remaining impact fees can be utilized to repay bond expenditures or be allocated to other projects. Impact fee revenue estimates by Benefit Area are shown in Table 6. If new cities and towns are created, the flow of impact fees to Pima County from the particular area will stop. Each city and town will have to consider whether or not to adopt and enforce impact fees. Where impact fees are allocated to a specific project and the project lies within an area that is newly incorporated, an intergovernmental agreement will be necessary to complete the project. The intergovernmental agreement shall identify the supplemental funding if development impact fees will not be collected. Development impact fees may not be allocated to each project in this plan, in part because of the difficulty of anticipating the specific location and intensity of use of future development within each benefit area. Whenever specific development occurs adjacent to improvements included within this plan, development impact fees collected will be allocated to the effected project.

Table 6

Projected Roadway Development Impact Fee Revenues

<table>
<thead>
<tr>
<th>Benefit Area</th>
<th>10-Year Revenue Estimate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canada del Oro</td>
<td>$ 6,300,000</td>
</tr>
<tr>
<td>Catalina Foothills</td>
<td>7,800,000</td>
</tr>
<tr>
<td>Silverbell-Tortolita</td>
<td>11,900,000</td>
</tr>
<tr>
<td>Rincon Valley</td>
<td>3,000,000</td>
</tr>
<tr>
<td>Tucson Mountains</td>
<td>2,600,000</td>
</tr>
<tr>
<td>San Xavier</td>
<td>3,500,000</td>
</tr>
<tr>
<td>Santa Cruz Valley</td>
<td>4,700,000</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$39,800,000</strong></td>
</tr>
</tbody>
</table>

The approved Transportation Bond Improvement Plan allocates an additional $46 million in non-bond revenues to specific projects.
VI. Legal Issues Related to Projects Financed with HURF Revenue Bonds Inside Incorporated Jurisdictions

The "Transportation Bond Implementation Plan for the November 4, 1997 Election" includes 29 projects, with a combined value of $129,320,000 (46 percent of the projects and 37 percent by bond revenue) which are intended to improve segments of streets and highways which cross between incorporated and unincorporated jurisdictional lines or are located entirely within the jurisdictional boundaries of Marana, Oro Valley, Sahuarita, South Tucson or Tucson.

A. Background on the Proposed $350 Million Transportation Revenue Bond Package

On December 4, 1996, the Citizens Bond Advisory Committee forwarded to the Board of Supervisors recommendations for a $250 million transportation revenue bond program designed to meet identified needs on the unincorporated County maintained street and highway system. At approximately the same time, the City of Tucson forwarded to the Board of Supervisors a separate list of projects it wished to see included in a County bond election, including a list of transportation projects. In the interests of treating all incorporated jurisdictions equally, Marana, Oro Valley, Sahuarita and South Tucson were afforded the opportunity to submit bond projects requests as well. In June and July 1997, the five incorporated jurisdictions submitted updated requests for municipal transportation projects for inclusion in the November 4, 1997 bond election.

Arizona Revised Statutes §11-371 enables counties to incur debt and issue bonds secured by Highway user Revenue Fund revenues for transportation projects. This authority has been in state statute since 1981 but has never been utilized by an Arizona county since its enactment. Arizona counties (including Pima County) never issued transportation revenue bonds because HURF receipts were never large enough to support any meaningful bonding capacity. In Maricopa County, HURF revenues were historically large enough to make "pay-as-you-go" financing a reasonable option. Therefore, if approved by the voters, Pima County will be the first county to avail itself of the transportation revenue bonding option pursuant to Arizona Revised Statutes §11-371 et seq.

B. Legal Challenge to Authority to Expend County HURF Transportation Revenue Bonds on Municipal Streets and Highways

Because no county has ever used revenue bonds for transportation purposes, the Pima County Administrator submitted a request to the County Attorney for a formal legal opinion on whether counties had the authority to expend transportation revenue bonds issued pursuant to ARS §11 - 371 for transportation improvements on municipal streets and highways. ARS §11 - 371 states:

"A county, in addition to other powers conferred upon it by law, may borrow money and issue bonds for the purpose of improvement, construction, reconstruction, acquisition of rights-of-way or maintenance of county streets and highways." (Emphasis added)

On July 13, 1997, the County Attorney's Office issued an opinion which stated, in pertinent part, that the language at ARS§ 11 - 371 appeared to restrict expenditure of transportation revenue bonds on streets and highways which are owned and maintained by the County and these funds could not be expended on municipal streets and highways.

The City of Tucson went to Superior Court to request a declaratory judgement that such expenditures were permissible. On July 30, 1997, the Superior Court issued an opinion sustaining the City of Tucson position and declaring expenditure of county HURF revenue bond proceeds on municipal streets and highways was permissible. On August 5, 1997, the Board of Supervisors
voted to appeal this lower court decision. The decision to appeal was primarily because a decision of the Superior Court is not binding in future litigation over spending county HURF revenue bonds on municipal streets and highways. Therefore, in the absence of a higher court decision, bond counsel would not be able to issue an unqualified legal opinion that the proposed sale of transportation revenue bonds would survive a legal challenge. Without this certainty, the bond markets could predictably refuse to purchase the proposed bonds or drive up the interest rates to compensate for the uncertainty of their legal status.

A hearing before the Court of Appeals is presently scheduled for October 15, 1997. The proposed transportation bond improvement plan has been constructed on the assumption that the final decision of the Court of Appeals or State Supreme Court will uphold the permissibility of expending county transportation revenue bonds on municipal streets and highways. If the final decision rules such expenditures are not permissible, the Board of Supervisors must determine what future actions may be necessary. This action will be structured in large part on the reasoning of the Court decision. If the Board desires to continue to implement transportation projects inside cities and towns, legislative as well as intergovernmental agreement options could be explored.

VII. Continuing Regional Cooperation

In an effort to enhance and stimulate regional cooperation, Pima County has allocated $129 million of County HURF revenue bonds to be spent inside incorporated cities and towns. The amount to be spent inside each city or town is listed in Table 7.

<table>
<thead>
<tr>
<th>Jurisdiction</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>City of Tucson</td>
<td>$111,900,000</td>
</tr>
<tr>
<td>Oro Valley</td>
<td>$3,500,000</td>
</tr>
<tr>
<td>Marana</td>
<td>$4,920,000</td>
</tr>
<tr>
<td>South Tucson</td>
<td>$5,300,000</td>
</tr>
<tr>
<td>Sahuarita</td>
<td>$3,700,000</td>
</tr>
</tbody>
</table>

There is no legal requirement to spend any county HURF revenue bond monies inside cities or towns. This allocation has been made to foster regional cooperation in solving community-wide problems. Pima County considers improving air quality, increasing traffic safety, full utilization of this region's Central Arizona Project water allocation, and complete effluent reuse to be regional goals that, if attained, will lead to a stronger, healthier community. In order to effectively implement this regional transportation bond program and to plan for and achieve other critical regional goals, a continuing dialogue among local governments to exchange information and coordinate efforts is needed.

VIII. Implementation of Transportation Projects in Other Jurisdictions

Pursuant to Pima County Code Section 3.06.080, bond projects authorized by the Board of Supervisors in the Bond Improvement Plan for the November 4, 1997 Special Election will be implemented by the County only pursuant to an intergovernmental agreement executed between Pima County and the implementing subdivision. The County will manage all phases of project implementation, including design, right-of-way acquisition, contracting and contract administration.
The major provisions of the intergovernmental agreements shall provide:

1. That the political subdivision shall operate and maintain the improvements constructed with County bond funds in perpetuity in accordance with applicable standards of engineering practices.

2. That the political subdivision shall not allow utility pavement cuts in the improved roadway for a period of five years after project completion.

3. That the political subdivision agrees to ensure and hold harmless the County from claims or lawsuits arising from use of the improvements constructed by the County.

4. That the political jurisdiction agrees to develop and enforce an access control plan where the capacity and safety of the transportation facilities being constructed with County bond funds is not diminished or compromised.

5. That the political subdivision will develop and implement an effective citizen participation process during the planning and design process for each project to be developed by the County.

The intergovernmental agreement shall also:

1. Establish the amount of County bond funds to be allocated to a specific project, establish the stated amount as a maximum of County bond monies to be allocated to the project, and commit the implementing political subdivision to pay for any and all costs in excess of County bond funds;

2. Require that the implementing subdivision agree to comply with all provisions of Chapter 3.06, Disclosure, Accountability, and Implementation of the Pima County Code.

PASSED AND ADOPTED by the Board of Supervisors of Pima County, Arizona, this 21st day of October, 1997.

Chairman, Board of Supervisors

Reviewed by:

County Administrator

Attest:

Clerk, Board of Supervisors

Approved as to Form:

Civil Deputy County Attorney
Figure 1
1997 County Transportation Bond Issue – November 4, 1997

56 Specific Projects $331 M
Safety Improvements $19 M
TOTAL $350 M

PIMA COUNTY TRANSPORTATION BOND PROJECTS

1. River Rd – First Ave. to Campbell.
2. Sunrise Dr – Swan Rd to Crocker Rd.
3. River Rd – La Cholla Blvd to La Canadi Dr.
4. River Rd – Campbell Ave. to Alvernon Way
5. Alvernon Way – Ft. Lowell to River Rd.
6. Magee Rd – La Canadi to Oracle Rd.
7. Orange Grove Rd, at Genevieve Wash
8. Skyline Rd – Chula Vista to Orange Grove Rd.
10. La Canadi Dr – Ina Rd. to Lambert Ln.
11. Drexel Rd – Tucson Blvd to Alvernon Way
12. Country Club Rd. – 36th to Irvington Rd.
13. Ajo Way – Country Club to Alvernon Way
14. Wetmore Rd – Ruthrauff/La Cholla to Fairview
15. River Rd – Thoroughfare Rd to Shannon Rd.
17. Valencia Rd – Mark Rd to Cmo de la Tierra
18. Cortaro Farms Rd – SPRR Crossing to Thomydale Rd.
19. Harriman Lane / Blue Bonnet Rd.
20. La Cholla Blvd – 1-10 to Ruthrauff
21. Thomydale Rd – Orange Grove Rd. to Ina Rd.
22. Thomydale Rd – Ina Rd to Cortaro Farms Rd.
23. Thomydale Rd – Cortaro Farms Rd. to Linda Vista Rd.
24. Mainail and Twin Lakes – 27 Wash area
25. I-19 SB Frontage Rd. at Continental Rd.
26. Abrego Drive at I-19 Frontage Rd.
27. River Rd. at Ventana Wash
28. Speedway Blvd – Camino Seco to Houghton
31. Tanque Verde Rd – Catalina Hwy to Houghton Rd.
32. Kolb Rd. – Sabino Canyon Rd. to Sunset Dr.
33. Kolb Rd. at Sabino Canyon Rd.
34. Camino del Sol – Continental Rd. to Cucullo Wash
35. Abrego Dr. Drainsgeway/Culvert
36. Camino del Sol – Continental Rd. to Duval Mine Rd.
37. I-19 Frontage Rd – Continental Rd. to Crisca Rd.
38. Polo Verde Rd. – Colossal Cave Rd. to Old Spanish Trail
40. Grant Rd – Oracle Rd. to Park Ave.
41. 22nd St. – 1-10 to Park Ave.
42. South Tucson – 6th Ave. and various locations
43. 12th Ave – Ajo Way to Los Reales Rd.
44. Orange Grove Rd – Thomydale Rd. to Oracle Rd.
45. La Cholla Blvd – Ruthrauff Rd. to Ina Rd.
46. Crocker Rd – River Rd. to Sunrise Dr.
47. Sunrise Dr – Crocker Rd. to Kolb Rd.
48. Duval Mine Rd. and I-19
49. Valencia Rd – Mission Rd. to I-19
51. La Canadi Dr / Las Quintas Hwy Drainage
52. Polo Verde Blvd – I-10 to Veterans Overpass
53. Old Tucson- Nogals Hwy. Summit Neighborhood
54. Mt. Lemmon Shuttle
55. Golf Links Rd. / Bonanza Dr.
56. Broadway – Euclid Ave. to Country Club Rd.