

MINUTESOf TheWILLIAMSON COUNTY COMMISSIONERS' COURT WORK SESSIONNovember 6&7, 2001

THE STATE OF TEXAS     )(

COUNTY OF WILLIAMSON)(

BE IT REMEMBERED that at 1:00 p.m. on November 6, 2001, a WORK SESSION of the Commissioners' Court of Williamson County, Texas, was held at Dell Diamond in Round Rock, Texas, with the following members being present, to-wit:

JOHN C. DOERFLER, County Judge  
MICHAEL L. HEILIGENSTEIN, Commissioner, Precinct 1  
GREGORY W. BOATRIGHT, Commissioner, Precinct 2  
DAVID HAYS, Commissioner, Precinct 3  
FRANKIE LIMMER, Commissioner, Precinct 4  
EUGENE D. TAYLOR, County Attorney  
NANCY E. RISTER, County Clerk

*Tuesday, November 6, 2001, 1:00 p.m. – 5:00 p.m.*

The following persons addressed the court regarding the bond program:

**Dan Wegmiller**, of First Southwest Company gave an overview on the Capital Improvement Program and the economic outlook for Williamson County, advising a flexible plan to account for fluctuations in the economy and interest rates.

**Pix Howell** discussed the parks and trails budgets for Brushy Creek Trail, Williamson County Cross-Country Heritage Trail, The Chamberlin tract, the Schroeder tract, and the Williamson County Regional Park.

**Randy Phillips** and **Jerry Adamson** of HNTB discussed parks and trails management, operations, and maintenance options and cost factors.

**Paul Linehan** of Land Strategies gave an overview of progress on the Williamson County Regional Park design, and discussed the park budget, maintenance issues, and water and wastewater management options and concerns.

Commissioner Heiligenstein asked if it was understood that everyone would have equal access to participation in the programs held in the park. Commissioner Boatright and Judge Doerfler agreed that this was the intention regarding the park.

**Tim Bargainer** and **Phil Wanke** of Hall/Bargainer, Inc. discussed the Heritage Trail, Brushy Creek Trail development and related issues regarding the crossing of a dam, access for the Fern Bluff section of the trail, trail heads, and a proposed interlocal agreement with the One Way Baptist Church for parking, and trail maintenance.

*Wednesday, November 7, 2001, 9:00 a.m. – 3:00 p.m.*

**Tim Bargainer** of Hall/Bargainer, Inc. discussed trails projects and right-of-way issues, and the development of the Chamberlin Tract park.

**Richard Ridings** of HNTB discussed the Transportation Infrastructure Finance and Innovation Act loan.

**Mike Weaver** of Prime Strategies talked about road bond budgets, right-of-way issues, toll roads, and the status of various road projects in the county.

**Steve Paulson** of Athabasca Consulting, Inc., discussed compliance with federal and state environmental requirements.

*The work session concluded at 3:00 p.m. on Wednesday, November 7, 2001.*

**Williamson County Commissioner's Court  
Bond Program Retreat**

Tuesday, November 6, 2001, 12:00 p.m. - 6:00 p.m.

Wednesday, November 7, 2001, 9:00 a.m. - 3:30 p.m. (or until finished)

**Location:** Dell Diamond, Round Rock, TX

# Tue Afternoon Session

1. Regional Planning Efforts
2. Dan W. (First Southwest)
3. Pix Howell - Annette Todd - Parks/Trails Budgets
4. HNTB -- Parks Management/Operations
5. Paul Linehan (Land Strategies), and necessary sub-consultants - Regional Park - Schedule, Road/Access, Water/Wastewater/Drainage, Irrigation, Maintenance, Phase I construction funding
6. Tim Bargainer (Hall-Bargainer), and necessary sub-consultants - Brushy Creek Trail, Chamberlan Tract, Heritage Trail - Schedule, Road/Access, Water/Wastewater/Irrigation, Maintenance, Phase I construction funding (If time is available)

## Wed Morning Session

1. Tim Bargainer (Hall-Bargainer), and necessary sub-consultants - Brushy Creek Trail, Chamberlan Tract, Heritage Trail - Schedule, Road/Access, Water/Wastewater/Irrigation, Maintenance, Phase I construction funding (possible continuation)
2. Mike Weaver - Road Bond Budgets
3. Mike Weaver (PSI) - Road Bond Projects - status of small projects

## Wed Afternoon Session

1. Mike Weaver (PSI), Richard Ridings (HNTB) - Major Road Bond Projects - Status Update

2. Alan Glen, Steve Paulson -- Environmental strategies and issues

## Summary and Wrap-up Discussion

### Presentations

#### Parks and Trails

Regional Park  
Brushy Creek Trail  
WC Trails

Land Strategies  
Hall, Bargainer  
CD&P

Paul Linehan  
Tim Bargainer  
Pix Howell

#### Road Bonds Projects

Status/Schedule/Budgets

Prime Strategies

Mike Weaver

HNTB

Richard Ridings

INTB

Paul Petrich

Issues

Williamson County

Nancy Ledbetter

Public/Communications

The Communicators

Pete Peters

#### Bond Program

Roads -- Parks -- Trails

Budget Issues

Prime Strategies

Mike Weaver

First Southwest

Dan Wegmiller

Williamson County

(?) David Flores

Williamson County

George Powers

HNTB

Richard Ridings

SRE&G

Alan Glen

SRE&G

Steve Paulson

(ACI)

### Attendees

Judge John Doerfler  
Mike Heiligenstein  
Greg Boatright  
David Hays  
Frankie Limmer  
Jane Tableriou  
Joe England

Williamson County Commissioners Court  
Williamson County Commissioners Court  
Williamson County Commissioners Court  
Williamson County Commissioners Court  
Williamson County Commissioners Court  
Williamson County  
Williamson County Engineer

|                               |   |
|-------------------------------|---|
| Greg Bergeron                 | Williamson County Road Administrator - Unified Road |
| System                        |   |
| Annette Todd                  | Williamson County Projects Director                 |
| Mary Clarke                   | Williamson County                                   |
| Nickey Lawrence               | Williamson County                                   |
| Nancy Ledbetter               | Williamson County Transportation Planner            |
| Mike Weaver                   | Prime Strategies                                    |
| Pix Howell                    | CD & P  |
| Paul Linehan                  | Land Strategies                                     |
| Tim Bargainer                 | Hall, Bargainer                                     |
| Dan Wegmiller                 | First Southwest                                     |
| David Flores                  | Williamson County                                   |
| George Powers                 | Williamson County                                   |
| Richard Ridings               | HNTB  |
| Paul Petrich                  | HNTB  |
| ?                             | HNTB (Parks and Trail Maintenance)                  |
| Pete Peters                   | The Communicators                                   |
| Charlie Crossfield            | Sheets & Crossfield                                 |
| Julie Wolfe                   | Sheets & Crossfield                                 |
| Peggy Croslin                 | Croslin and Daughter                                |
| Paula Gruber                  | Prime Strategies                                    |
| Sheriff and appropriate Staff | Williamson County                                   |
| Gene Taylor                   | Williamson County Attorney                          |

# FIRST SOUTHWEST COMPANY

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Presentation to:



## **Williamson County, Texas** **Updated Capital Improvement Program and Economic Outlook**

November 6, 2001



## CIP Scenarios Approved By County Voters

| Scenario  | Description  | CIP Amount     | Total Tax Impact | Year Reached | First Year Impact |
|-----------|--|----------------|------------------|--------------|-------------------|
| Base Case | Proposed Cash Flow for \$200 million County Road Program       | \$ 200,000,000 | \$ 0.050         | 2005         | \$ -              |
| Option 1  | \$150 million Provided to TTA in FY 2001                       | \$ 350,000,000 | \$ 0.107         | 2006         | \$ 0.066          |
| Option 2  | Early TTA Payment (Loop 1 / SH 45) Balance Deferred to FY 2004 | \$ 350,000,000 | \$ 0.107         | 2006         | \$ 0.020          |
| Option 3  | Equal Payments to TTA over 5 Years                             | \$ 350,000,000 | \$ 0.107         | 2006         | \$ 0.025          |

| Description                 | CIP Amount    | Total Tax Impact | Year Reached | First Year Impact |
|-----------------------------|---------------|------------------|--------------|-------------------|
| Proposed Park Plan Analysis | \$ 25,000,000 | \$ 0.013         | 2004         | \$ 0.005          |



Current CIP Analysis as of November 6, 2001

| FYE<br>9/30 | Assessed<br>Valuation | Existing Debt | 4/15/02                         |   | 4/15/02                      |            | 11/15/02                       |            | Projected<br>Total<br>Debt Service | Est.<br>I&S<br>Tax Rate | Change         |  |
|-------------|-----------------------|---------------|---------------------------------|---|------------------------------|------------|--------------------------------|------------|------------------------------------|-------------------------|----------------|--|
|             |                       |               | \$20,000,000<br>Notes, Ser 2002 | - | \$125,000,000<br>Series 2002 | -          | \$137,000,000<br>Series 2002-A | -          |                                    |                         |                |  |
| 2001        | \$ 13,587,301,412     | \$ 12,647,357 | \$ -                            | - | \$ -                         | -          | \$ -                           | 12,647,357 | \$ 0.09153                         | \$ -                    |                |  |
| 2002        | 16,600,000,000        | 17,029,174    | -                               | - | -                            | -          | -                              | 17,029,174 | 0.10362                            | 0.012                   |                |  |
| 2003        | 17,600,000,000        | 17,507,719    | 1,062,500                       | - | 8,203,125                    | -          | -                              | 26,773,344 | 0.15366                            | 0.050                   |                |  |
| 2004        | 19,008,000,000        | 17,454,719    | 850,000                         | - | 6,562,500                    | -          | -                              | 37,996,385 | 0.20192                            | 0.048                   |                |  |
| 2005        | 19,958,400,000        | 19,678,344    | 5,156,500                       | - | 6,562,500                    | 8,110,600  | -                              | 39,507,944 | 0.19995                            | -                       |                |  |
| 2006        | 20,956,320,000        | 19,847,519    | 5,140,781                       | - | 6,562,500                    | 9,927,606  | -                              | 41,478,406 | 0.19993                            | -                       |                |  |
| 2007        | 22,004,136,000        | 20,171,556    | 5,460,188                       | - | 6,562,500                    | 11,043,763 | -                              | 43,238,006 | 0.19848                            | -                       |                |  |
| 2008        | 22,554,239,400        | 20,178,069    | 6,050,906                       | - | 6,562,500                    | 11,042,513 | -                              | 43,833,988 | 0.19631                            | -                       |                |  |
| 2009        | 23,118,095,385        | 20,171,531    | -                               | - | 10,735,019                   | 11,039,475 | -                              | 41,946,025 | 0.18328                            | -                       |                |  |
| 2010        | 23,696,047,770        | 18,958,394    | -                               | - | 10,734,019                   | 11,038,931 | -                              | 40,731,344 | 0.17363                            | -                       |                |  |
| 2011        | 24,288,448,964        | 17,958,429    | -                               | - | 10,735,550                   | 11,040,019 | -                              | 39,733,998 | 0.16524                            | -                       |                |  |
| 2012        | 24,895,660,188        | 17,950,526    | -                               | - | 10,733,956                   | 11,041,875 | -                              | 39,726,358 | 0.16118                            | -                       |                |  |
| 2013        | 25,518,051,693        | 17,957,929    | -                               | - | 10,733,581                   | 11,043,638 | -                              | 39,735,148 | 0.15729                            | -                       |                |  |
| 2014        | 26,156,002,985        | 17,958,569    | -                               | - | 10,733,638                   | 11,039,588 | -                              | 39,731,794 | 0.15344                            | -                       |                |  |
| 2015        | 26,809,903,060        | 17,952,806    | -                               | - | 10,733,338                   | 11,038,863 | -                              | 39,725,006 | 0.14967                            | -                       |                |  |
| 2016        | 27,480,150,636        | 17,955,284    | -                               | - | 10,731,894                   | 11,040,313 | -                              | 39,727,491 | 0.14603                            | -                       |                |  |
| 2017        | 28,167,154,402        | 17,950,675    | -                               | - | 10,733,388                   | 11,042,788 | -                              | 39,726,850 | 0.14246                            | -                       |                |  |
| 2018        | 28,871,333,262        | 17,950,488    | -                               | - | 10,731,900                   | 11,040,281 | -                              | 39,722,669 | 0.13897                            | -                       |                |  |
| 2019        | 29,593,116,594        | 17,954,222    | -                               | - | 10,731,513                   | 11,041,644 | -                              | 39,727,378 | 0.13560                            | -                       |                |  |
| 2020        | 30,332,944,508        | 17,955,091    | -                               | - | 10,731,175                   | 11,040,581 | -                              | 39,726,847 | 0.13229                            | -                       |                |  |
| 2021        | 31,091,268,121        | 9,899,200     | -                               | - | 10,734,706                   | 11,040,800 | -                              | 31,674,706 | 0.10291                            | -                       |                |  |
| 2022        | 31,868,549,824        | 9,906,591     | -                               | - | 10,731,056                   | 11,040,863 | -                              | 31,678,509 | 0.10041                            | -                       |                |  |
| 2023        | 32,665,263,570        | 9,903,109     | -                               | - | 10,734,044                   | 11,039,331 | -                              | 31,676,484 | 0.09795                            | -                       |                |  |
| 2024        | 33,481,895,159        | 9,899,131     | -                               | - | 10,732,356                   | 11,039,625 | -                              | 31,671,112 | 0.09555                            | -                       |                |  |
| 2025        | 34,318,942,538        | 9,906,725     | -                               | - | 10,734,681                   | 11,040,019 | -                              | 31,681,425 | 0.09325                            | -                       |                |  |
| 2026        | 35,176,916,101        | 9,899,719     | -                               | - | 10,734,575                   | 11,043,644 | -                              | 31,677,938 | 0.09096                            | -                       |                |  |
| 2027        | 36,056,339,004        | -             | -                               | - | -                            | 11,043,631 | -                              | 11,043,631 | 0.03094                            | -                       |                |  |
|             |                       |               | \$ 422,602,875                  |   | \$ 23,720,875                |            | \$ 234,216,013                 |            | \$ 263,029,554                     |                         | \$ 943,569,316 |  |
|             |                       |               |                                 |   |                              |            |                                |            |                                    |                         | \$ 0.110       |  |

Preliminary interest rate assumptions: Series 2002 Notes = 4.25%, Series 2002 = 5.25% and Series 2002-A = 5.75%  
AV growth assumptions: FY 2002 provided by County (+22.17%), FY 2003 = +6.02%, FY 2004 = +8.0%, FYs 2005-2007 = +5.0% and FY 2008+ = +2.5% per year thereafter



# Summary of Results

|   | Scenario C1: 2000-2001<br>\$0.21153 | Scenario C2: 2000-2001<br>\$0.20192 |
|---|-------------------------------------|-------------------------------------|
| <b>New Money Issuance Amount:</b>         |                                     |                                     |
| Unlimited Tax Road Bonds                  | \$350,000,000                       | \$350,000,000                       |
| Park Bonds                                | \$25,000,000                        | \$25,000,000                        |
| Limited Tax Notes                         | \$0                                 | \$20,000,000                        |
| <i>Total</i>                              | \$375,000,000                       | \$395,000,000                       |
| <b>Estimated I&amp;S Tax Rate Impact:</b> | \$0.120                             | \$0.110                             |
| <b>New Money Dollars / Penny</b>          | \$31,250,000                        | \$35,909,091                        |
| <b>Maximum I&amp;S Tax Rate:</b>          | \$0.21153                           | \$0.20192                           |

*Note: All results are as of November 6, 2001. Preliminary, subject to change based upon market conditions and the County's financing goals and timetable.*

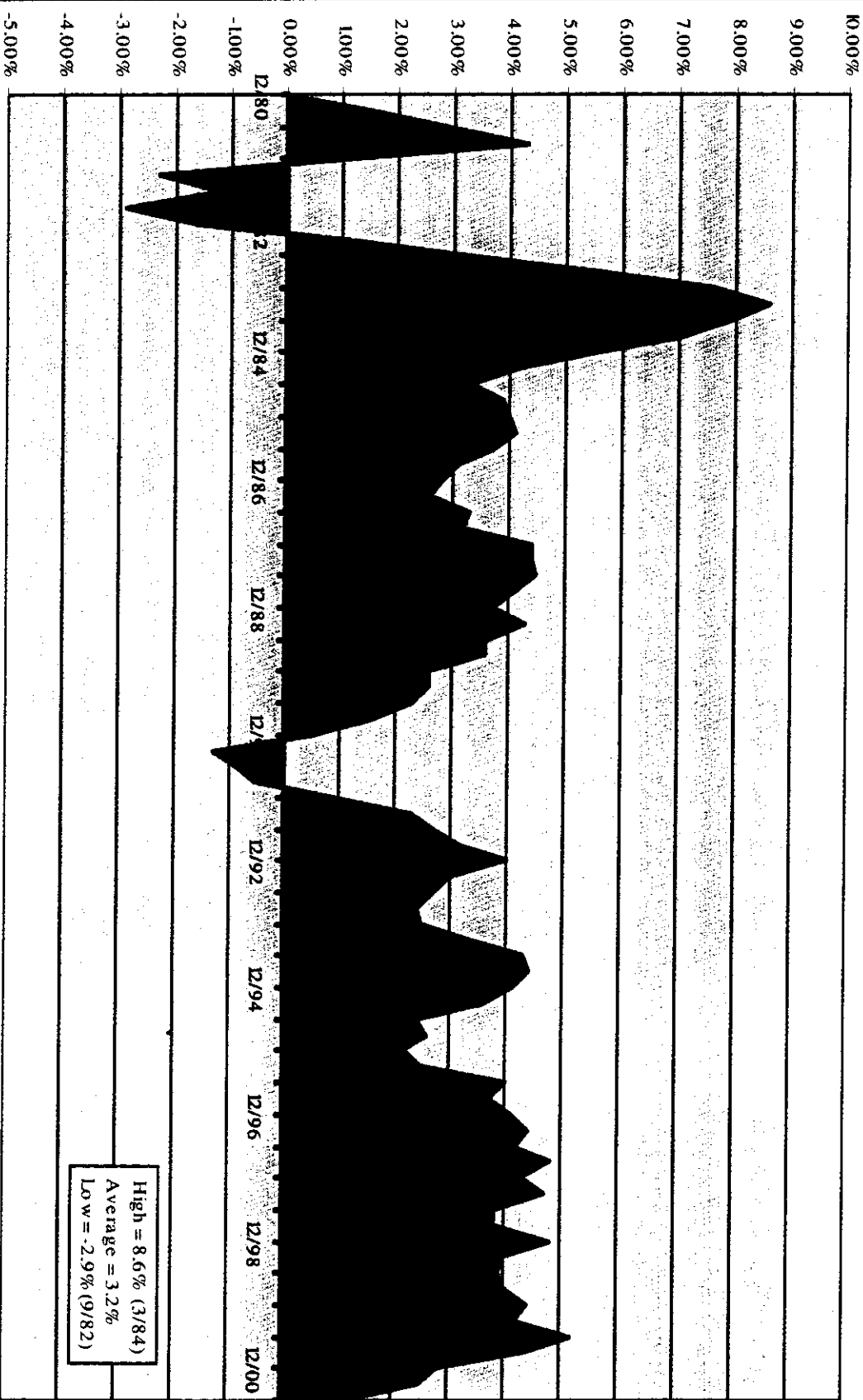
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# U.S. GDP (Year over Year % Change - Quarterly Basis)



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## Summary of GDP Forecasts

### FIRST SOUTHWEST ASSET MANAGEMENT, INC. Summary of GDP Forecasts

#### Forecast

#### Forecast based on % change quarter over quarter

|                            |      |      |      |     |     |     |          |
|----------------------------|------|------|------|-----|-----|-----|----------|
| 10/26/2001 DeutscheBank    | -0.9 | -2.6 | -0.3 | 3.2 | 5.0 | 5.5 | Q over Q |
| 9/28/2001 Merrill Lynch    | -1.0 | -1.0 | 2.1  | 4.3 | 4.5 | 4.5 | Q over Q |
| 9/24/2001 Financial Oxygen | -1.0 | -2.5 | -1.5 | 2.0 | 4.0 | 3.0 | Q over Q |
| 9/30/2001 Goldman Sachs    | -0.5 | -2.5 | 0.5  | 2.0 | 3.0 | 3.0 | Q over Q |
| AVERAGE                    | -0.9 | -2.2 | 0.2  | 2.9 | 4.1 | 4.0 |          |

#### Forecast based on % change year over year

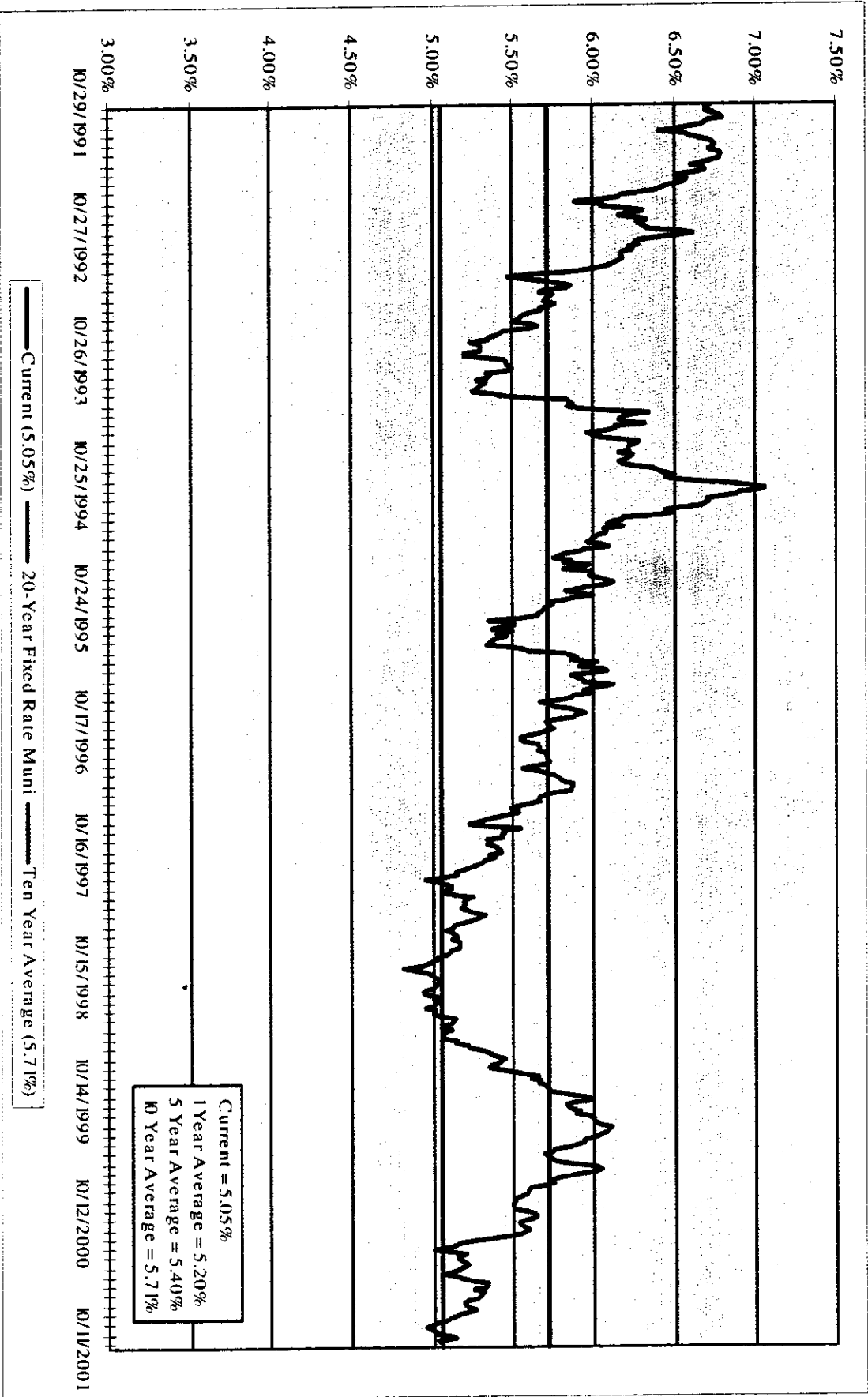
|                                |     |      |      |      |     |     |          |
|--------------------------------|-----|------|------|------|-----|-----|----------|
| 10/26/2001 DeutscheBank        | 0.7 | -0.1 | -0.1 | -0.2 | 1.3 | 3.3 | Y over Y |
| 9/20/2001 Bank of America      | 0.5 | -1.7 | 1.5  | 3.1  | 3.8 | 4.1 | Y over Y |
| 9/26/2001 Salomon Smith Barney | 0.6 | -0.2 | -0.4 | 0.5  | 1.7 |     | Y over Y |
| AVERAGE                        | 0.6 | -0.7 | 0.3  | 1.1  | 2.3 | 3.7 |          |

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# Ten-Year General Obligation Interest Rate History (BBI)

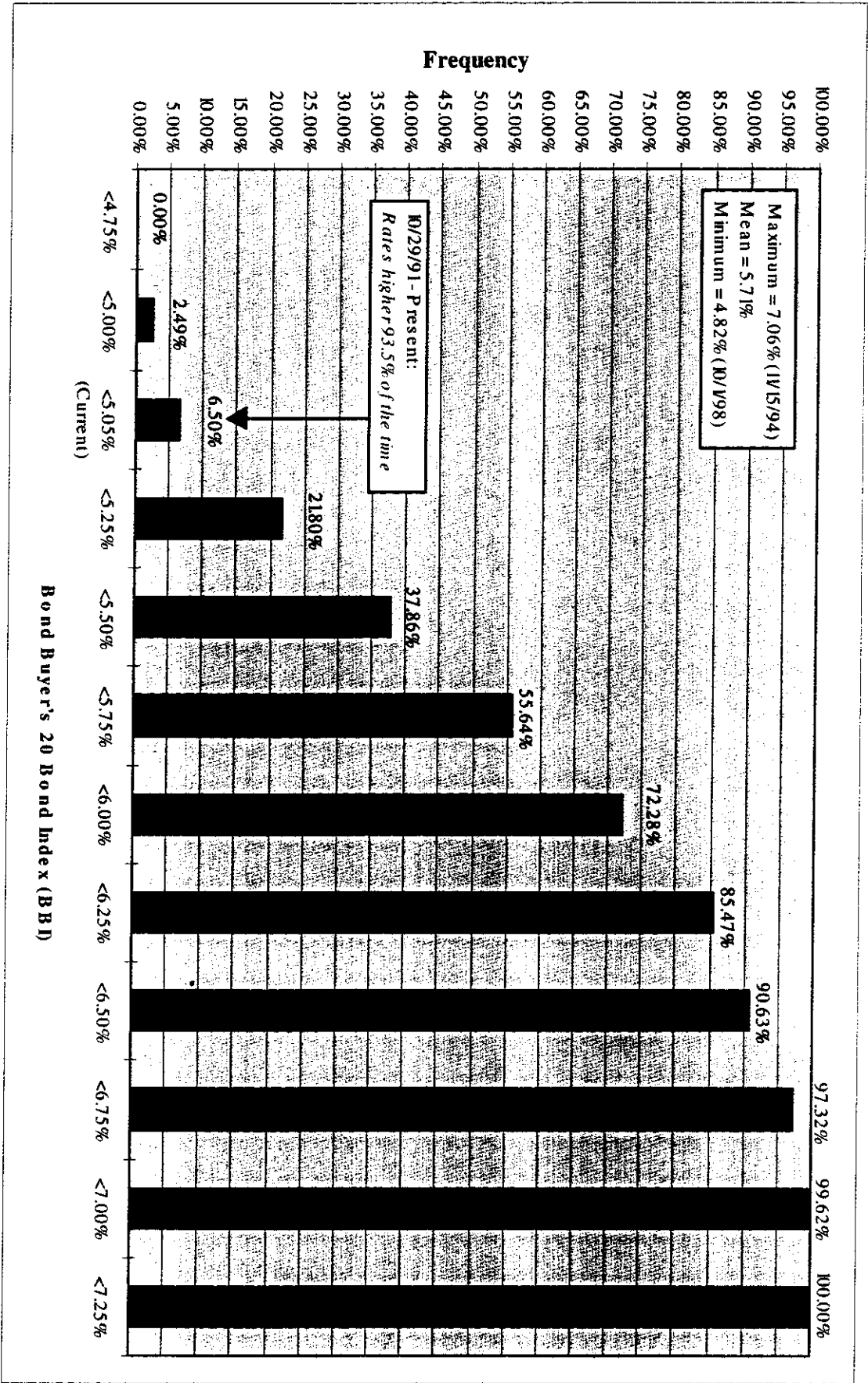


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# BBI Trailing 10 Year Yield Distribution



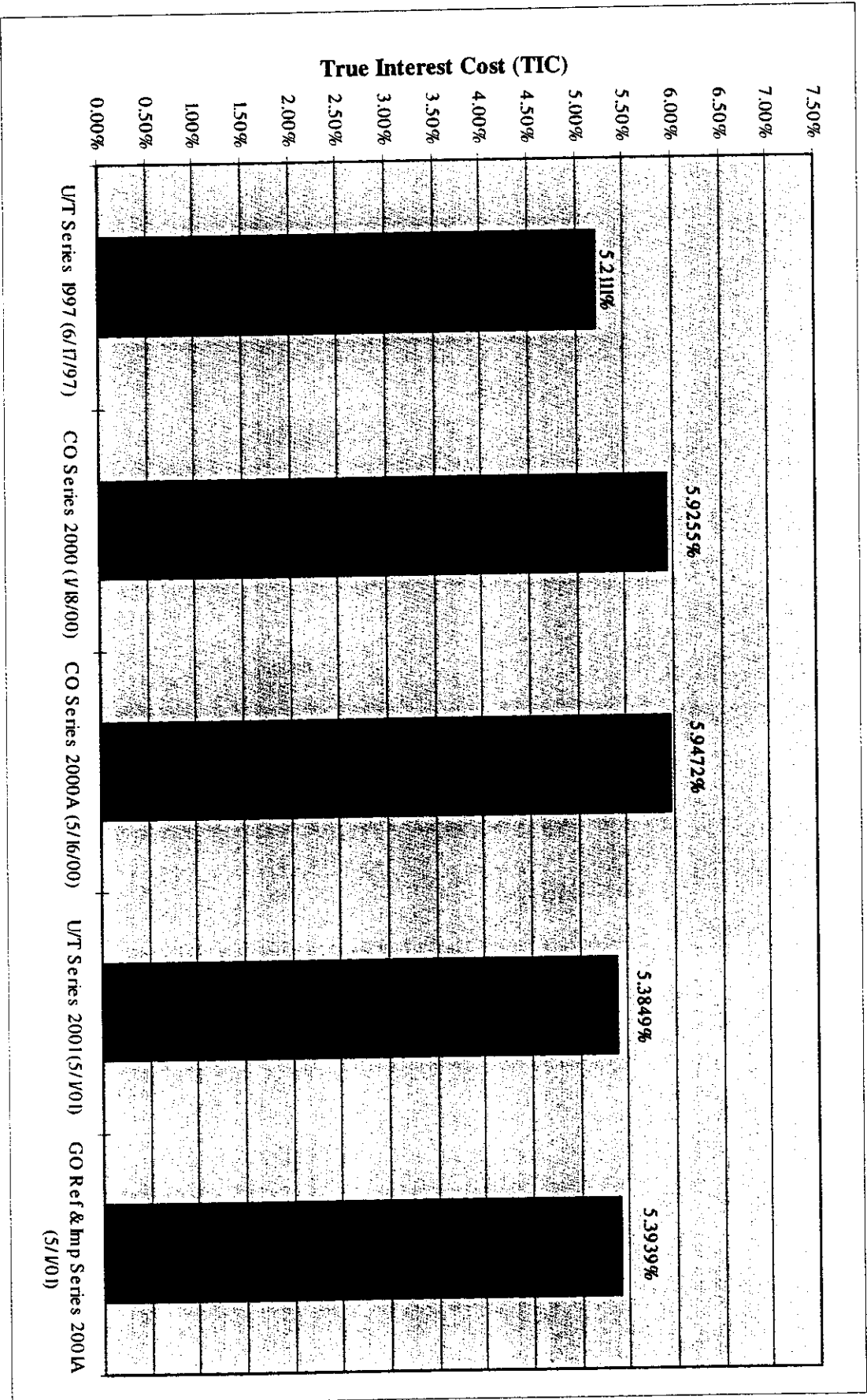
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Historical Sale Results for the County's Long-Term Debt



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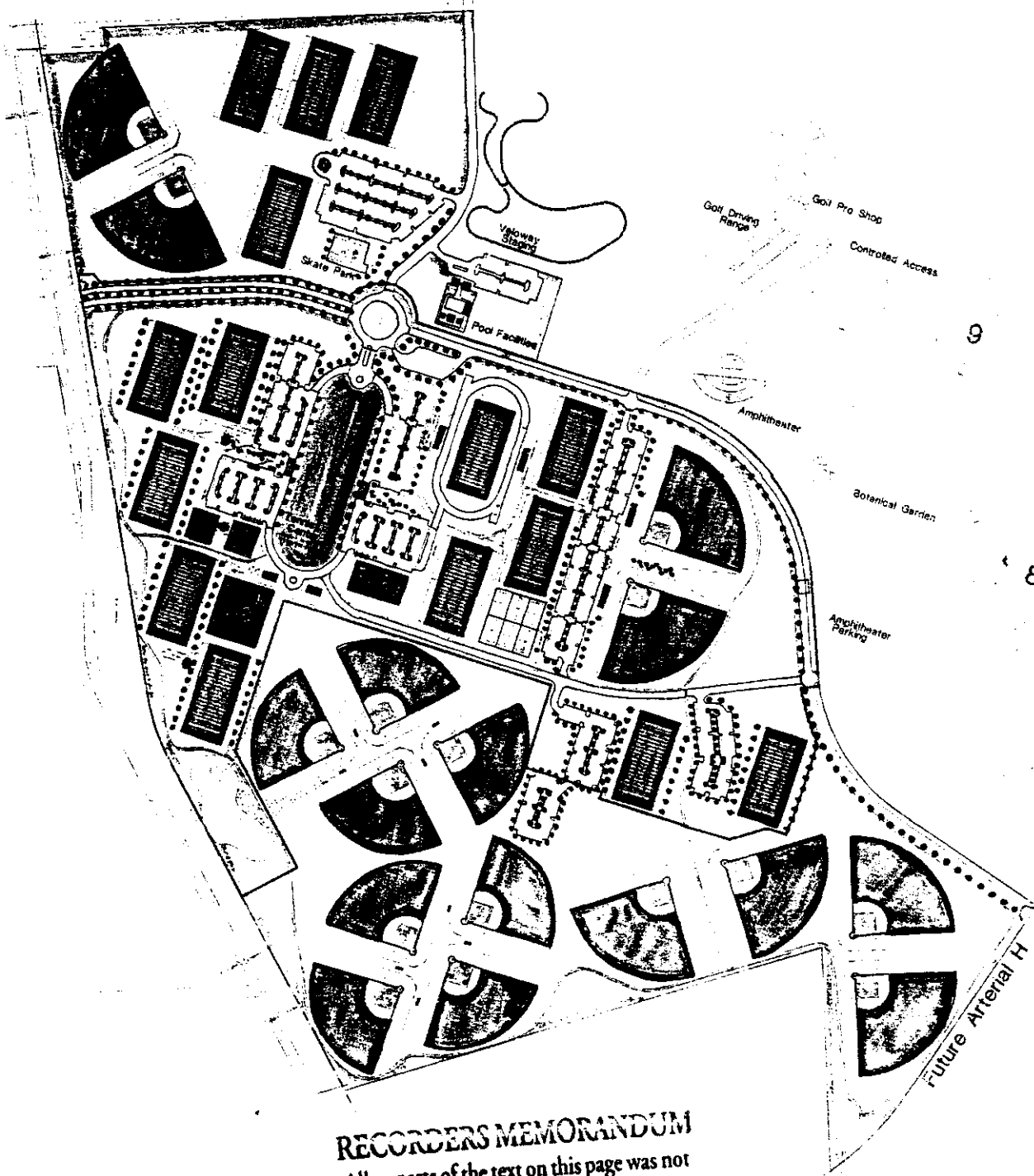




## Financing Considerations

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- **Document Preparation** - Assuming the spring 2002 issuance timetable for the next phase of the County's CIP, the County should consider beginning the document preparation process in November or December. Having the offering documents prepared by this time would allow the financing team the opportunity to enter the market at most opportune time.
- **Economic Conditions** - First Southwest Company will monitor economic conditions and their effects on the municipal market to assist the County in entering the market at the optimal time.
- **Economies of Scale** - By combining the issuance of the limited tax notes, road bonds, park bonds and any potential refunding bonds, the County can realize lower issuance costs through economies of scale.
- **Financing Team** - The County should also begin to consider the composition of the financing team for the transactions. Similar to advance document preparation, a set financing team early in the process will allow the participants the opportunity to begin formulating marketing plans for the County's financings.
- **Spring and Summer Sales** - The County could consider selling bonds this spring to satisfy immediate cash flow needs. The next sale could then be planned for the summer, after the 2002 Assessed Valuation is known, to afford the County maximum flexibility.



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**Williamson  
 County Regional Park**



**Sports Complex Site Plan**



June 26th, 2001 **LAND STRATEGIES INC.**



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## Southwest Williamson County Regional Park - Phase I Cost Estimate

- 100 Total Acreage within Limits of Construction
- 6 Total Number of Basketball Courts
- 8 Total Number of Tennis Courts
- 2 Total Number of Baseball Fields
- 1 Total Number of Football/Track Stadiums
- 10 Total Number of Soccer Fields
- 1 Total Number of Children Playgrounds
- 1066 Total Number of Parking Spaces
- 1215.3 Total Linear Footage of Median Roadways
- 7102 Total Linear Footage of 30' Roadways
- 9027.6 Total Linear Footage of Parking Roadways
- 9241 Total Linear Footage of Jogging Trails

| Basketball Court (70' X 114')                 |          |             |      |              |
|---|----------|-------------|------|--------------|
| Parameter / Item of Work                      | Quantity | \$/Unit     | Unit | Total        |
| Rough Grading to achieve level area           | 198.0    | \$6.00      | CY   | \$1,188.13   |
| 6" Flex Base for Court                        | 319.2    | \$13.00     | TON  | \$4,149.60   |
| 6" Concrete Pad for Court                     | 7980.0   | \$4.50      | SF   | \$35,910.00  |
| Field Lighting                                | 2.0      | \$15,000.00 | Pole | \$30,000.00  |
| Athletic Equipment, backboards, field markers | 1.0      | \$1,500.00  | LS   | \$1,500.00   |
| Subtotal Basketball Court                     | 6.0      | \$72,747.73 | EA   | \$436,486.40 |

| Tennis Court (60' X 54')                |          |             |      |              |
|---|----------|-------------|------|--------------|
| Parameter / Item of Work                | Quantity | \$/Unit     | Unit | Total        |
| Rough Grading to achieve level area     | 80.4     | \$6.00      | CY   | \$482.40     |
| 6" Flex Base for Court                  | 129.6    | \$13.00     | TON  | \$1,684.80   |
| 6" Concrete Pad for Court               | 3240.0   | \$4.50      | SF   | \$14,580.00  |
| Field Lighting                          | 2.0      | \$15,000.00 | Pole | \$30,000.00  |
| Athletic Equipment, nets, field markers | 1.0      | \$2,500.00  | LS   | \$2,500.00   |
| Subtotal Tennis Court                   | 8.0      | \$49,247.20 | EA   | \$393,977.60 |

| Baseball Field (400' Outfield)             |          |              |      |              |
|--|----------|--------------|------|--------------|
| Parameter / Item of Work                   | Quantity | \$/Unit      | Unit | Total        |
| Rough Grading to achieve level area        | 3118.3   | \$6.00       | CY   | \$18,709.91  |
| Place 6" Imported Topsoil on Playing Field | 2327.1   | \$30.00      | CY   | \$69,813.11  |
| Sod (laid)                                 | 13962.6  | \$3.25       | SY   | \$45,378.52  |
| Site Utilities / Irrigation Allowance      | 125663.6 | \$0.25       | SF   | \$31,415.90  |
| Field Lighting                             | 4.0      | \$15,000.00  | Pole | \$60,000.00  |
| Chainlink Perimeter Fence                  | 1428.3   | \$12.00      | LF   | \$17,139.82  |
| Chainlink Backstop Fence                   | 1.0      | \$5,000.00   | LS   | \$5,000.00   |
| Chainlink Dug-out Enclosures               | 1.0      | \$4,000.00   | LS   | \$4,000.00   |
| Infield Sand - 6" Imported and Spread      | 275.0    | \$20.00      | CY   | \$5,500.00   |
| Aluminum Grand Stands for 250 People       | 1.0      | \$15,000.00  | LS   | \$15,000.00  |
| Electronic Scoreboard                      | 1.0      | \$5,000.00   | LS   | \$5,000.00   |
| Athletic Equipment, bases, field markers   | 1.0      | \$1,000.00   | LS   | \$1,000.00   |
| Subtotal Baseball Field                    | 2.0      | \$277,957.26 | EA   | \$555,914.53 |

| Football Field and Track (170' x 370')        |          |              |      |              |
|---|----------|--------------|------|--------------|
| Parameter / Item of Work                      | Quantity | \$/Unit      | Unit | Total        |
| Rough Grading to achieve level area           | 1560.9   | \$6.00       | CY   | \$9,365.11   |
| Place 6" Imported Topsoil on Playing Field    | 1164.8   | \$30.00      | CY   | \$34,944.44  |
| Sod (laid)                                    | 6988.9   | \$3.25       | SY   | \$22,713.89  |
| Site Utilities / Irrigation Allowance         | 62900.0  | \$0.25       | SF   | \$15,725.00  |
| Field Lighting                                | 4.0      | \$15,000.00  | Pole | \$60,000.00  |
| Chainlink Perimeter Fence                     | 1500.0   | \$12.00      | LF   | \$18,000.00  |
| 6" Flex Base for Track                        | 2022.0   | \$13.00      | TON  | \$26,286.00  |
| 2" Cinder Track Surface for 8 Lane Track      | 5467.0   | \$7.25       | SY   | \$39,635.75  |
| Upgrade to Artificial Track Surface           | 1.0      | \$40,000.00  | LS   | \$40,000.00  |
| 6" x 18" Concrete Curb around Track           | 3000.0   | \$8.50       | LF   | \$25,500.00  |
| Aluminum Grand Stands for 1000 People         | 1.0      | \$60,000.00  | LS   | \$60,000.00  |
| Press Box                                     | 1.0      | \$8,000.00   | LS   | \$8,000.00   |
| Electronic Scoreboard                         | 1.0      | \$10,000.00  | LS   | \$10,000.00  |
| Athletic Equipment, goal posts, field markers | 1.0      | \$4,000.00   | LS   | \$4,000.00   |
| Subtotal Football Field and Track             | 1.0      | \$374,170.19 | EA   | \$374,170.19 |



## Southwest Williamson County Regional Park - Phase I Cost Estimate

| Soccer Field (225' x 360')                    |          |              |      |                |
|---|----------|--------------|------|----------------|
| Parameter / Item of Work                      | Quantity | \$/Unit      | Unit | Total          |
| Rough Grading to achieve level area           | 2010.0   | \$6.00       | CY   | \$12,060.00    |
| Place 6" Imported Topsoil on Playing Field    | 1500.0   | \$30.00      | CY   | \$45,000.00    |
| Sod (laid)                                    | 9000.0   | \$3.25       | SY   | \$29,250.00    |
| Site Utilities / Irrigation Allowance         | 81000.0  | \$0.25       | SF   | \$20,250.00    |
| Aluminum Grand Stands for 100 People          | 1.0      | \$10,000.00  | LS   | \$10,000.00    |
| Field Lighting                                | 4.0      | \$15,000.00  | Pole | \$60,000.00    |
| Athletic Equipment, goal posts, field markers | 1.0      | \$4,000.00   | LS   | \$4,000.00     |
| Subtotal Soccer Field                         | 10.0     | \$180,560.00 | EA   | \$1,805,600.00 |

| Children Playground                      |          |             |      |             |
|--|----------|-------------|------|-------------|
| Parameter / Item of Work                 | Quantity | \$/Unit     | Unit | Total       |
| Adventure Series playstructure (no roof) | 2.0      | \$7,750.00  | EA   | \$15,500.00 |
| Single Post 2 bay swing set              | 2.0      | \$1,450.00  | EA   | \$2,900.00  |
| Two Set Bouncers                         | 2.0      | \$1,650.00  | EA   | \$3,300.00  |
| Canopy Shade Cover 21' x 18'             | 1.0      | \$2,200.00  | EA   | \$2,200.00  |
| Canopy Shade Cover 36' x 18'             | 1.0      | \$2,675.00  | EA   | \$2,675.00  |
| Bow, Little Crown Series                 | 2.0      | \$425.00    | EA   | \$850.00    |
| Little Daisy, Little Crown Series        | 2.0      | \$430.00    | EA   | \$860.00    |
| Twin Toadstool, Little Crown Series      | 1.0      | \$570.00    | EA   | \$570.00    |
| Daffodil, Little Crown Series            | 1.0      | \$725.00    | EA   | \$725.00    |
| Tick-Tock, Little Crown Series           | 1.0      | \$705.00    | EA   | \$705.00    |
| Engineered Wood Fiber Fall Surface       | 15625.0  | \$1.75      | SF   | \$27,343.75 |
| 4' Chainlink Fence around Perimeter      | 500.0    | \$12.00     | LF   | \$6,000.00  |
| Subtotal Children Playground             | 1.0      | \$63,628.75 | EA   | \$63,628.75 |

| Parking Spaces (18.5' x 9')           |          |          |      |              |
|---------------------------------------|----------|----------|------|--------------|
| Parameter / Item of Work              | Quantity | \$/Unit  | Unit | Total        |
| Clear and Grub for Pavement Area      | 166.5    | \$0.08   | SF   | \$13.32      |
| Strip 4" Loose Material for Paving    | 2.0      | \$2.00   | CY   | \$4.07       |
| 6" Flex Base for Asphalt Parking Area | 6.7      | \$13.00  | TON  | \$86.58      |
| 1.5" Asphalt for Parking Areas        | 18.5     | \$2.90   | SY   | \$53.65      |
| Standard Curb and Gutter              | 9.0      | \$6.75   | LF   | \$60.75      |
| Parking Lot Striping                  | 18.5     | \$0.50   | LF   | \$9.25       |
| 6" Topsoil Spread Around Parking Area | 0.8      | \$20.00  | CY   | \$16.67      |
| Subtotal Parking Spaces               | 1066.0   | \$244.29 | EA   | \$260,409.59 |

| Median Roadway (2 - 24' lanes)       |          |             |      |              |
|--------------------------------------|----------|-------------|------|--------------|
| Parameter / Item of Work             | Quantity | \$/Unit     | Unit | Total        |
| Clear and Grub for Pavement Area     | 68.0     | \$0.08      | SF   | \$5.44       |
| Strip 4" Loose Material for Paving   | 0.6      | \$2.00      | CY   | \$1.17       |
| Subgrade Treatment                   | 5.3      | \$1.00      | SY   | \$5.33       |
| 8" Flex Base                         | 2.6      | \$13.00     | TON  | \$34.32      |
| 2" Asphalt                           | 5.3      | \$3.85      | SY   | \$20.53      |
| Concrete Ribbon Curbing              | 4.0      | \$4.00      | LF   | \$16.00      |
| Signage and Striping                 | 2.0      | \$2.00      | LF   | \$4.00       |
| Drainage                             | 1.0      | 15% of Road | LS   | \$13.02      |
| 6" Topsoil Spread Around Median Area | 0.7      | \$20.00     | CY   | \$14.81      |
| Subtotal Median Roadway              | 1215.3   | \$114.63    | LF   | \$139,315.69 |

| Roadway (30' wide)                 |          |             |      |              |
|------------------------------------|----------|-------------|------|--------------|
| Parameter / Item of Work           | Quantity | \$/Unit     | Unit | Total        |
| Clear and Grub for Pavement Area   | 30.0     | \$0.08      | SF   | \$2.40       |
| Strip 4" Loose Material for Paving | 0.4      | \$2.00      | CY   | \$0.73       |
| Subgrade Treatment                 | 3.3      | \$1.00      | SY   | \$3.33       |
| 8" Flex Base                       | 1.7      | \$13.00     | TON  | \$21.45      |
| 2" Asphalt                         | 3.3      | \$3.85      | SY   | \$12.83      |
| Concrete Ribbon Curbing            | 2.0      | \$4.00      | LF   | \$8.00       |
| Signage and Striping               | 3.0      | \$2.00      | LF   | \$6.00       |
| Drainage                           | 1.0      | 15% of Road | LS   | \$8.21       |
| Subtotal 30' Roadway               | 7102.0   | \$62.96     | LF   | \$447,159.68 |

## Southwest Williamson County Regional Park - Phase I Cost Estimate

| Parking Roadway (26' wide)         |          |             |      |              |
|------------------------------------|----------|-------------|------|--------------|
| Parameter / Item of Work           | Quantity | \$/Unit     | Unit | Total        |
| Clear and Grub for Pavement Area   | 26.0     | \$0.08      | SF   | \$2.08       |
| Strip 4" Loose Material for Paving | 0.3      | \$2.00      | CY   | \$0.64       |
| Subgrade Treatment                 | 2.9      | \$1.00      | SY   | \$2.89       |
| 8" Flex Base                       | 1.4      | \$13.00     | TON  | \$18.59      |
| 2" Asphalt                         | 2.9      | \$3.85      | SY   | \$11.12      |
| Standard Curb and Gutter           | 1.0      | \$6.75      | LF   | \$6.75       |
| Signage and Striping               | 1.0      | \$0.50      | LF   | \$0.50       |
| Drainage                           | 1.0      | 15% of Road | LS   | \$6.38       |
| Subtotal Parking Roadway           | 9027.6   | \$48.95     | LF   | \$441,916.07 |

| Jogging Trail (10' wide)          |          |             |      |              |
|-----------------------------------|----------|-------------|------|--------------|
| Parameter / Item of Work          | Quantity | \$/Unit     | Unit | Total        |
| Clear and Grub for Trail Area     | 10.0     | \$0.08      | SF   | \$0.80       |
| Strip 4" Loose Material for Trail | 0.1      | \$2.00      | CY   | \$0.24       |
| Subgrade Treatment                | 1.1      | \$1.00      | SY   | \$1.11       |
| 2" Crushed Granite                | 10.0     | \$4.50      | SF   | \$45.00      |
| Signage                           | 1.0      | \$0.25      | LF   | \$0.25       |
| Drainage                          | 1.0      | 2% of Trail | LS   | \$0.95       |
| Subtotal Jogging Trail            | 9241.0   | \$48.35     | LF   | \$446,836.23 |

| Miscellaneous                            |          |                |       |                |
|--|----------|----------------|-------|----------------|
| Parameter / Item of Work                 | Quantity | \$/Unit        | Unit  | Total          |
| Water Wells                              | 2.0      | \$30,000.00    | EA    | \$60,000.00    |
| Water Distribution                       | 17344.9  | \$25.00        | LF    | \$433,622.50   |
| Off-Site Water Extension                 | 0.0      | \$64.51        | LF    | \$0.00         |
| Off-Site Wastewater Extension            | 0.0      | \$97.05        | LF    | \$0.00         |
| Internal Centralized Wastewater System   | 0.0      | \$549,985.00   | EA    | \$0.00         |
| Tennis Pro Shop                          | 0.0      | \$125.00       | SF    | \$0.00         |
| Restroom Buildings (3) 40' x 40'         | 4800.0   | \$100.00       | SF    | \$480,000.00   |
| Concession Stand Buildings (3) 20' x 20' | 1200.0   | \$100.00       | SF    | \$120,000.00   |
| Open Air Shelter (3) 30' x 30'           | 2700.0   | \$75.00        | SF    | \$202,500.00   |
| Trees                                    | 800.0    | \$225.00       | EA    | \$180,000.00   |
| Shrubs                                   | 1600.0   | \$25.00        | EA    | \$40,000.00    |
| Irrigation Allowance                     | 360000.0 | \$0.25         | SF    | \$90,000.00    |
| Concrete Sidewalks                       | 123180.0 | \$3.50         | SF    | \$431,130.00   |
| Entry Fencing                            | 4375.0   | \$35.00        | LF    | \$153,125.00   |
| Entry Signage                            | 1.0      | \$25,000.00    | EA    | \$25,000.00    |
| Monument                                 | 1.0      | \$50,000.00    | EA    | \$50,000.00    |
| Flagpoles                                | 6.0      | \$2,200.00     | EA    | \$13,200.00    |
| Silt Fencing                             | 26585.9  | \$1.35         | LF    | \$35,890.97    |
| Rock Berm                                | 1329.3   | \$25.00        | LF    | \$33,232.38    |
| Revegetation                             | 242000.0 | \$0.50         | SY    | \$121,000.00   |
| Water Quality Structure                  | 1066.0   | \$175.00       | SPACE | \$186,550.00   |
| Subtotal Miscellaneous                   | 1.0      | \$2,655,250.84 | LS    | \$2,655,250.84 |

| Park Phase I (Sports Fields) Development       |          |                |      |                |
|--|----------|----------------|------|----------------|
| Parameter / Item of Work                       | Quantity | \$/Unit        | Unit | Total          |
| Subtotal Basketball Court                      | 6        | \$72,747.73    | EA   | \$436,486.40   |
| Subtotal Tennis Court                          | 8        | \$49,247.20    | EA   | \$393,977.60   |
| Subtotal Baseball Field                        | 2        | \$277,957.26   | EA   | \$555,914.53   |
| Subtotal Football Field and Track              | 1        | \$374,170.19   | EA   | \$374,170.19   |
| Subtotal Soccer Field                          | 10       | \$180,560.00   | EA   | \$1,805,600.00 |
| Subtotal Children Playground                   | 1        | \$63,628.75    | EA   | \$63,628.75    |
| Subtotal Parking Spaces                        | 1066     | \$244.29       | EA   | \$260,409.59   |
| Subtotal Median Roadway                        | 1215.3   | \$114.63       | LF   | \$139,315.69   |
| Subtotal 30' Roadway                           | 7102     | \$62.96        | LF   | \$447,159.68   |
| Subtotal Parking Roadway                       | 9027.6   | \$48.95        | LF   | \$441,916.07   |
| Subtotal Jogging Trail                         | 9241     | \$48.35        | LF   | \$446,836.23   |
| Subtotal Miscellaneous                         | 1        | \$2,655,250.84 | LS   | \$2,655,250.84 |
| Total Park Phase I (Sports Fields) Development |          |                |      | \$8,020,665.56 |

11/06/2001 - 11/07/2001 Work Session

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**DRAFT**

**ENGINEERS OPINION OF PROBABLE  
OFFSITE WASTEWATER CONSTRUCTION COSTS  
(PARK WWTP OPTION)  
(ON SITE)**

PROJECT: WILLIAMSON COUNTY REGIONAL PARK  
OPINION OF PROBABLE CONSTRUCTION COSTS  
FOR CONVEYING WASTEWATER TO THE PARK WWTP

JOB NO: 1396-2414-87

DATE: 11/6/01

BASED ON: AERIAL TOPO AND CONCEPT PLAN

PREPARED BY: AHR

PREPARED  
BY: GRAY JANSING & ASSOCIATES, INC.

CHECKED BY:

## ESTIMATE OF QUANTITIES:

## WASTEWATER IMPROVEMENTS

| ITEM               | DESCRIPTION   | QUANTITY | UNIT | COST/UNIT    | TOTAL COST   |
|--------------------|---|----------|------|--------------|--------------|
| 1                  | 240 GPM SUBMERSIBLE LIFT STATION INCLUDING PUMPS, PIPING, VALVES, WET WELL, VALVE VAULT, ELECTRICAL, CONTROLS, LIGHTING, BACKFLOW PREVENTOR, FENCING, YARD PIPING, BACKUP GENERATOR, ETC. | 1        | LS   | \$372,000.00 | \$372,000.00 |
| 2                  | 6" DUCTILE IRON CLASS 350 EPOXY LINED FORCE MAIN  | 3,700    | LF   | \$38.00      | \$140,600.00 |
| TOTAL - WASTEWATER |   |          |      |              | \$512,600.00 |

**RECORDERS MEMORANDUM**  
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clearly legible for satisfactory recordation.

**DRAFT**

**ENGINEERS OPINION OF PROBABLE  
OFFSITE WASTEWATER CONSTRUCTION COSTS  
(COCF OPTION)**

PROJECT: WILLIAMSON COUNTY REGIONAL PARK  
OPINION OF PROBABLE CONSTRUCTION COSTS  
FOR CONVEYING WASTEWATER TO THE COCF COLLECTION SYSTEM

JOB NO: 1396-8414-87

DATE: 11/6/01

BASED ON: AERIAL TOPO AND SITE PLAN

PREPARED BY: AHR

PREPARED  
BY: GRAY JANSING & ASSOCIATES, INC.

CHECKED BY:

ESTIMATE OF QUANTITIES:

WASTEWATER IMPROVEMENTS

| ITEM               | DESCRIPTION   | QUANTITY | UNIT | COST/UNIT    | TOTAL COST   |
|--------------------|---|----------|------|--------------|--------------|
| 1                  | 240 GPM SUBMERSIBLE LIFT STATION INCLUDING PUMPS, PIPING, VALVES, WET WELL, VALVE VAULT, ELECTRICAL, CONTROLS, LIGHTING, BACKFLOW PREVENTOR, FENCING, YARD PIPING, BACKUP GENERATOR, ETC. | 1        | LS   | \$372,000.00 | \$372,000.00 |
| 2                  | 6" DUCTILE IRON CLASS 350 EPOXY LINED FORCE MAIN  | 6.300    | LF   | \$38.00      | \$239,400.00 |
| TOTAL - WASTEWATER |   |          |      |              | \$611,400.00 |

*372,400  
+ 239,000  
= 611,400*

**RECORDERS MEMORANDUM**  
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clearly legible for satisfactory recordation.

11/06/2001 – 11/07/2001 Work Session

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**DRAFT**

# ENGINEERS OPINION OF PROBABLE OFFSITE WATERLINE CONSTRUCTION COSTS (COCOP OPTION)

PROJECT: WILLIAMSON COUNTY REGIONAL PARK  
OPINION OF PROBABLE CONSTRUCTION COSTS  
FOR CONNECTING TO THE COCP WATER DISTRIBUTION SYSTEM

JOB NO: 1396-8414-87

DATE: 11/6/01

BASED ON: AERIAL TOPO AND SITE PLAN

PREPARED BY: AHR

PREPARED  
BY: GRAY JANSING & ASSOCIATES, INC.

CHECKED BY:

## ESTIMATE OF QUANTITIES:

### WASTEWATER IMPROVEMENTS

| ITEM               | DESCRIPTION                              | QUANTITY | UNIT | COST/UNIT  | TOTAL COST   |
|--------------------|--|----------|------|------------|--------------|
| 1                  | 16-INCH DUCTILE IRON CLASS 250 WATERLINE | 5.850    | LF   | \$60.00    | \$351,000.00 |
| 2                  | 16-INCH GATE VALVE AND BOX               | 4        | EA   | \$4,700.00 | \$18,800.00  |
| 3                  | FIRE HYDRANT ASSEMBLY                    | 2        | EA   | \$2,800.00 | \$5,600.00   |
| 4                  | 2-INCH AIR RELEASE VALVE                 | 1        | EA   | \$2,000.00 | \$2,000.00   |
| TOTAL - WASTEWATER |  |          |      |            | \$377,400.00 |

## RECORDERS MEMORANDUM

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clearly legible for satisfactory recordation.

**DRAFT**

**ENGINEERS OPINION OF PROBABLE  
OFFSITE WATERLINE CONSTRUCTION COSTS  
(CITY OF GEORGETOWN OPTION)**

PROJECT: WILLIAMSON COUNTY REGIONAL PARK  
OPINION OF PROBABLE CONSTRUCTION COSTS  
FOR CONNECTING TO THE COG WATER DISTRIBUTION SYSTEM WITH  
16-INCH WATERLINE

JOB NO: 1396-8414-87

DATE: 11/6/01

BASED ON: AERIAL TOPO AND CONCEPT PLAN

PREPARED BY: AHR

PREPARED  
BY: GRAY JANSING & ASSOCIATES, INC.

CHECKED BY:

**ESTIMATE OF QUANTITIES:**

**WASTEWATER IMPROVEMENTS**

| ITEM                                       | DESCRIPTION                              | QUANTITY | UNIT | COST/UNIT  | TOTAL COST     |
|--|--|----------|------|------------|----------------|
| 1  | 16-INCH DUCTILE IRON CLASS 250 WATERLINE | 16,300   | LF   | \$60.00    | \$978,000.00   |
| 2  | 16-INCH GATE VALVE AND BOX               | 10       | EA   | \$4,700.00 | \$47,000.00    |
| 3  | FIRE HYDRANT ASSEMBLY                    | 4        | EA   | \$2,800.00 | \$11,200.00    |
| 4  | 2-INCH AIR RELEASE VALVE                 | 4        | EA   | \$2,000.00 | \$8,000.00     |
| TOTAL - <del>WASTEWATER</del> <i>WATER</i> |  |          |      |            | \$1,044,200.00 |

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**RECORDERS MEMORANDUM**  
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clearly legible for satisfactory recordation.

11/06/2001 – 11/07/2001 Work Session

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**DRAFT****ENGINEERS OPINION OF PROBABLE  
OFFSITE WATERLINE CONSTRUCTION COSTS  
(CITY OF GEORGETOWN OPTION)**

PROJECT: WILLIAMSON COUNTY REGIONAL PARK  
OPINION OF PROBABLE CONSTRUCTION COSTS  
FOR CONNECTING TO THE COG WATER DISTRIBUTION SYSTEM WITH  
12-INCH WATERLINE

JOB NO: 1396-8414-87

DATE: 11/6/01

BASED ON: AERIAL TOPO AND CONCEPT PLAN

PREPARED BY: AHR

PREPARED  
BY: GRAY JANSING & ASSOCIATES, INC.

CHECKED BY:

**ESTIMATE OF QUANTITIES:****WASTEWATER IMPROVEMENTS**

| ITEM               | DESCRIPTION                              | QUANTITY | UNIT | COST/UNIT  | TOTAL COST   |
|--------------------|--|----------|------|------------|--------------|
| 1                  | 12-INCH DUCTILE IRON CLASS 250 WATERLINE | 16,300   | LF   | \$50.00    | \$815,000.00 |
| 2                  | 12-INCH GATE VALVE AND BOX               | 10       | EA   | \$1,500.00 | \$15,000.00  |
| 3                  | FIRE HYDRANT ASSEMBLY                    | 4        | EA   | \$2,800.00 | \$11,200.00  |
| 4                  | 2-INCH AIR RELEASE VALVE                 | 4        | EA   | \$2,000.00 | \$8,000.00   |
| TOTAL - WASTEWATER |  |          |      |            | \$849,200.00 |

**RECORDERS MEMORANDUM**

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clearly legible for satisfactory recordation.

| Subconsultant Investigations on the 235 Acre Addition |                              |             |
|---|------------------------------|-------------|
| Subconsultant   | Work Items                   | Costs       |
| Gray / Jansing Engineers                              | Civil Engineering            | \$12,000.00 |
| Baker-Aicklen & Associates                            | Surveying                    | \$26,750.00 |
| Hicks & Company Consultants                           | Historical and Archeological | \$22,885.00 |
| Raba-Kistner - Bryest Consultants                     | Geotechnical Engineering     | \$4,950.00  |
| Horizon Environmental Services                        | Environmental                | \$14,500.00 |
| Total   |                              | \$81,085.00 |

| Subconsultant Services on the Sports Complex |                   |              |
|--|-------------------|--------------|
| Subconsultant                                | Work Items        | Costs        |
| Gray / Jansing Engineers                     | Civil Engineering | \$260,000.00 |
|  | Surveying         | \$0.00       |
|  | Architectural     | \$36,000.00  |
|  | MEP               | \$0.00       |
|  | Architectural     | \$0.00       |
| Total  |                   | \$296,000.00 |

- \* - Note that we have not estimated any surveying of tree locations or off-site utility extensions
- \* - Note that estimate is for concessions and restroom facilities.
- \* - Note that we have not estimated any MEP for site lighting and power supply
- \* - Note fees do not include combined concession/restroom facility, open air shelters, nor tennis pro shop

| Comprehensive Master Plan on the 235 Acre Addition |                            |             |
|--|----------------------------|-------------|
| Consultant   | Work Items                 | Costs       |
| Land Strategies, Inc.                              | Subconsultant Coordination | \$10,750.00 |
| Land Strategies, Inc.                              | Master Plan                | \$18,500.00 |
| Total  |                            | \$29,250.00 |

| Consultant Services on the Sports Complex |                         |                |
|---|-------------------------|----------------|
| Estimated Construction Cost               | 3.50%                   | \$8,245,490.20 |
| Consultant                                | Work Items              | Costs          |
| Land Strategies, Inc.                     | Design Development      | \$101,007.25   |
| Land Strategies, Inc.                     | Construction Documents  | \$115,436.86   |
| Land Strategies, Inc.                     | Bidding and Negotiation | \$14,429.61    |
| Land Strategies, Inc.                     | Construction Phase      | \$51,946.59    |
| Land Strategies, Inc.                     | Warranty                | \$5,771.84     |
| Total                                     |                         | \$288,592.16   |





Williamson County Road Bond Program - County Road Projects Budget

| Project | Limits                | Project Element   | Total Budget |
|---------|-----------------------|---|--------------|
| 1       | Georgetown Inner Loop | FM 2338 to SH 29  | \$450,000    |
|         |                       | Cedar Breaks  | \$283,766    |
|         |                       | DB Woods Road   | \$110,000    |
|         |                       | Design (PID Repayment)                                  |              |
|         |                       | Shell Road Realignment                                  | \$0          |
|         |                       | Cedar Breaks  | \$0          |
|         |                       | DB Woods Road   | \$0          |
|         |                       | Shell Road Realignment                                  |              |
|         |                       | Construction  | \$7,500,000  |
|         |                       | Construction  | \$1,800,000  |
|         |                       | DB Woods Road   | \$850,000    |
|         |                       | Shell Road Realignment                                  |              |
|         |                       | Subtotal  | \$10,993,766 |
| 2       | Georgetown Inner Loop | SH 29 to FM 2234  | \$150,000    |
|         |                       | Design (Balance from CO)                                | \$1,200,000  |
|         |                       | ROW   | \$5,500,000  |
|         |                       | Construction  | \$8,850,000  |
|         |                       | Subtotal  |              |
|         |                       | Feasibility Study                                       | \$395,000    |
|         |                       | Subtotal  | \$395,000    |
| 3       | Georgetown Inner Loop | FM 2234 to IH-35  |              |
|         |                       | Design  | \$1,400,000  |
|         |                       | Survey  | \$238,000    |
|         |                       | ROW   | \$9,000,000  |
|         |                       | Construction  | \$23,000,000 |
|         |                       | Subtotal  | \$33,638,000 |
| 4       | Parmer Lane           | FM 1431 to SH 29  |              |
|         |                       | Design  | \$1,500,000  |
|         |                       | Survey  | \$450,000    |
|         |                       | ROW (SH 29 - IH 35)                                     | \$11,000,000 |
|         |                       | Construction (SH 29 - FM 2338)                          | \$15,000,000 |
|         |                       | Subtotal  |              |
|         |                       | May be multiple design/construction projects (segments) | \$27,950,000 |

Williamson County Road Bond Program - County Road Projects Budget

| Project                    | Limits                                     | Project Element                        | Total Budget |
|----------------------------|--|--|--------------|
| 6<br>McNeill Road          | Travis County Line/McNeill Cutoff to IH-35 | Design/Survey                          | \$1,400,000  |
|                            |  | ROW                                    | \$1,000,000  |
|                            |  | Construction                           | \$15,000,000 |
|                            |  | Subtotal                               | \$17,400,000 |
| 7<br>Chandler Road         | FM 1460 to US 95                           |  |              |
|                            |  | Route Study                            | \$412,500    |
|                            |  | Survey                                 | \$550,000    |
|                            |  | Design                                 | \$400,000    |
|                            |  | FM 1460 to CR 110                      | \$550,000    |
|                            |  | CR 110 to FM 1660                      |              |
|                            |  | Construction                           | \$5,800,000  |
|                            |  | FM 1460 to CR 110                      | \$6,800,000  |
|                            |  | CR 110 to FM 1660                      | \$4,000,000  |
|                            |  | ROW                                    | \$18,512,500 |
|                            |  | Subtotal                               |              |
|                            |  |  |              |
| 8<br>US 79                 | CR 110 to Milam County Line                |  |              |
|                            |  | Environmental Studies/ROW Maps         | \$900,000    |
|                            |  | ROW 50% (cash participate w/TXDOT)     | \$11,000,000 |
|                            |  | Design                                 |              |
|                            |  | CR 110 to Hutto                        | \$400,000    |
|                            |  | Hutto to Taylor                        | \$400,000    |
|                            |  | Utility 10% (cost participate w/TXDOT) | \$300,000    |
|                            |  | Subtotal                               | \$13,000,000 |
|                            |  |  |              |
|                            |  |  |              |
| 9<br>Precinct 1 GO Program | RM 620 to CR 172 (SH 45)                   |  |              |
|                            |  | Route Study                            | \$285,000    |
|                            |  | Design                                 | \$900,000    |
|                            |  | ROW                                    | \$1,000,000  |
|                            |  | Construction                           | \$11,500,000 |
|                            |  | Subtotal                               | \$13,685,000 |
|                            |  |  |              |
|                            |  |  |              |
|                            |  |  |              |
| b<br>CR 175                | FM 1431 to Park Boundary                   | Design                                 | \$215,000    |
|                            |  | ROW                                    | \$400,000    |
|                            |  | Construction                           | \$2,000,000  |
|                            |  | Landscape                              | \$350,000    |
|                            |  | Subtotal                               | \$2,965,000  |
|                            |  |  |              |
| c<br>To be determined      |  |  |              |
|                            |  | Subtotal                               | -\$6,650,000 |
|                            |  |  | -\$6,650,000 |

**WORKING DRAFT**

| Project | Limits                                  | Project Element                    | Total Budget |
|---------|---|------------------------------------|--------------|
| 10      | Precinct 2 GO Program                   |                                    |              |
| a       | CR 276                                  | Design                             | \$365,000    |
|         |   | ROW                                | \$700,000    |
|         |   | Construction                       | \$1,600,000  |
|         |   | Subtotal                           | \$2,665,000  |
| b       | River Bend Oaks                         | Design                             | \$76,000     |
|         |   | ROW                                | \$0          |
|         |   | Construction                       | \$600,000    |
|         |   | Subtotal                           | \$676,000    |
| c       | Brushy Creek Road at Cypress Creek Road | Contribution to City of Cedar Park | \$3,000,000  |
|         |   | Subtotal                           | \$3,000,000  |
| d       | FM 2243 Realignment                     | Contribution to City of Leander    | \$3,000,000  |
|         |   | Subtotal                           | \$3,000,000  |
| e       | To be determined                        |                                    | \$639,000    |
|         |   | Subtotal                           | \$639,000    |
| 11      | Precinct 3 GO Program                   |                                    |              |
| a       | Lakeline Blvd.                          | Design                             | \$395,000    |
|         |   | ROW                                | \$0          |
|         |   | Construction                       | \$2,000,000  |
|         |   | Subtotal                           | \$2,395,000  |
| b       | Wyoming Springs                         | Design Phase I                     | CO Program   |
|         |   | ROW                                | CO Program   |
|         |   | Construction                       | \$500,000    |
|         |   | Subtotal                           | \$500,000    |
| c       | Georgetown Loop (East)                  | Design                             | \$450,000    |
|         |   | ROW                                | \$300,000    |
|         |   | Construction                       | \$5,000,000  |
|         |   | Subtotal                           | \$5,750,000  |
| d       | To be determined                        |                                    | \$1,365,000  |
|         |   | Subtotal                           | \$1,365,000  |

WORKING DRAFT

Williamson County Road Bond Program - County Road Projects Budget

| Project |                       | Limits                 | Project Element                |  | Total Budget |
|---------|-----------------------|------------------------|--------------------------------|--|--------------|
| 12      | Precinct 4 GO Program |                        |                                |  |              |
| a       | CR 412                | FM 619 to CR 421       | Design                         |  | \$123,500    |
|         |                       |                        | ROW                            |  | \$350,000    |
|         |                       |                        | Construction                   |  | \$1,100,000  |
|         |                       |                        | Subtotal                       |  | \$1,573,500  |
| b       | CR 366/CR 369         | CR 101 to CR 366       | Design                         |  | \$152,000    |
|         |                       |                        | ROW                            |  | \$100,000    |
|         |                       |                        | Construction                   |  | \$1,100,000  |
|         |                       |                        | Subtotal                       |  | \$1,352,000  |
| c       | CR 137                | County Line to FM 1660 | Design                         |  | \$155,000    |
|         |                       |                        | ROW                            |  | \$250,000    |
|         |                       |                        | Construction                   |  | \$1,000,000  |
|         |                       |                        | Subtotal                       |  | \$1,405,000  |
| d       | CR 300/301            | FM 972/FM 971          | Design                         |  | \$182,000    |
|         |                       |                        | ROW                            |  | \$150,000    |
|         |                       |                        | Construction                   |  | \$1,500,000  |
|         |                       |                        | Subtotal                       |  | \$1,832,000  |
| e       | Hutto Bypass          | CR 136 to CR 110       | Design                         |  | \$425,000    |
|         |                       |                        | ROW                            |  | \$600,000    |
|         |                       |                        | Construction (CR 136 - CR 119) |  | \$1,600,000  |
|         |                       |                        | Subtotal                       |  | \$2,625,000  |
| f       | CR 119                | Hutto Bypass to US 79  | Design                         |  | \$250,000    |
|         |                       |                        | ROW                            |  | \$800,000    |
|         |                       |                        | Construction                   |  | \$2,000,000  |
|         |                       |                        | Subtotal                       |  | \$3,050,000  |
| g       | To be determined      |                        | Subtotal                       |  | -\$1,837,500 |
|         |                       |                        |                                |  | -\$1,837,500 |

WORKING DRAFT

Williamson County Road Bond Program - County Road Projects Budget

| Project |  | Limits | Project Element | Total Budget  |
|---------|--|--------|-----------------|---------------|
| 13      | Countywide Environmental Mitigation                        |        |                 | \$10,000,000  |
| 14      | Countywide Safety and Mobility                             |        |                 | \$10,000,000  |
|         | Oak Grove at US 183  |        |                 |               |
|         | Pond Springs at Turtle Rock                                |        |                 |               |
|         | SH 29 at FM 1869   |        |                 |               |
|         | School Zones   |        |                 |               |
|         | Signs & Markings   |        |                 |               |
|         | Wooden Bridges   |        |                 |               |
|         |  |        |                 | \$16,000,000  |
| 15      | Other State Projects                                       |        |                 |               |
|         |  |        |                 | \$212,226,768 |
|         | Subtotal Committed to Date                                 |        |                 |               |
|         | Construction Inspection                                    | 3%     |                 |               |
|         | Management Activities*                                     | 2%     |                 |               |
|         | ROW Services   | 2%     |                 |               |
|         | Geotechnical/Testing                                       | 1%     |                 |               |
|         |  | 8%     |                 | \$16,976,141  |
|         | Total  |        |                 |               |
|         | *Includes: PSI, environmental, accounting, landscape, etc. |        |                 |               |
|         | TOTAL BUDGET COMMITMENT TO DATE                            |        |                 | \$229,204,907 |

| ID | Task Name  | Duration | Start    | Finish   |
|----|--|----------|----------|----------|
| 1  | McNeil Road  | 393 days | 8/1/02   | 2/2/04   |
| 2  | Pond Springs Road                                      | 84 days  | 11/6/01  | 3/1/02   |
| 3  | Wyoming Springs - South                                | 270 days | 3/13/03  | 3/24/04  |
| 4  |  |          |          |          |
| 5  | CR 200   | 89 days  | 10/1/02  | 1/31/03  |
| 6  | CR 214   | 150 days | 3/3/03   | 9/26/03  |
| 7  | CR 214 A   | 131 days | 2/3/03   | 8/4/03   |
| 8  | CR 276 / CR 278  | 196 days | 6/3/02   | 3/3/03   |
| 9  | FM 1669 at SH 29                                       | 75 days  | 4/1/02   | 7/12/02  |
| 10 | Oak Grove Road at US 183                               | 101 days | 6/25/02  | 11/12/02 |
| 11 | Palmer Lane - South (FM 1431 - FM 2243)                | 199 days | 5/1/02   | 2/3/03   |
| 12 | Palmer Lane - South (FM 2243 - SH 29)                  | 250 days | 8/5/02   | 7/18/03  |
| 13 | Riverband Oaks   | 63 days  | 1/8/02   | 4/4/02   |
| 14 |  |          |          |          |
| 15 | CR 175   | 86 days  | 6/18/02  | 10/15/02 |
| 16 | Georgetown Inner Loop - Cedar Breaks                   | 381 days | 4/1/02   | 9/15/03  |
| 17 | Georgetown Inner Loop - East                           | 199 days | 5/1/02   | 2/3/03   |
| 18 | Georgetown Inner Loop (DB WOODS)                       | 162 days | 11/16/01 | 7/1/02   |
| 19 | Georgetown Inner Loop - DB Woods Ext (SH 29 - FM 2243) | 304 days | 2/1/02   | 4/2/03   |
| 20 | Lakeline Blvd  | 301 days | 1/2/03   | 2/28/04  |
| 21 | Palmer Lane - North (SH 29 - FM 2338)                  | 395 days | 3/3/03   | 9/3/04   |
| 22 | Shell Road (Supp to Cedarbreaks) (TBD)                 | 1 day    | 1/2/03   | 1/2/03   |
| 23 | Wyoming Springs - North                                | 131 days | 3/1/02   | 8/30/02  |
| 24 |  |          |          |          |
| 25 | Chandler Road (CR 110 - FM 1660)                       | 130 days | 7/1/02   | 12/27/02 |
| 26 | Chandler Road (FM 1460 - CR 110)                       | 132 days | 3/1/02   | 9/2/02   |
| 27 | CR 119   | 130 days | 11/1/02  | 5/1/03   |
| 28 | CR 137   | 217 days | 9/2/02   | 7/1/03   |
| 29 | CR 300   | 219 days | 7/1/02   | 5/1/03   |
| 30 | CR 368 / CR 369  | 120 days | 1/15/02  | 7/1/02   |
| 31 | CR 412   | 143 days | 5/2/02   | 11/18/02 |
| 32 | Hutto Loop (TBD)                                       | 1 day    | 1/2/03   | 1/2/03   |
| 33 | US 79  | 321 days | 3/14/03  | 6/4/04   |

| External Tasks     |   |
|--------------------|---|
| External Milestone | ◆ |
| Deadline           | 📅 |

## Chandler

| ID | Task Name  | Duration | Start       | Finish      |
|----|--|----------|-------------|-------------|
| 1  | Consultant Contract Approved                               | 1 day    | Tue 3/20/01 | Tue 3/20/01 |
| 2  | Design / Engineering                                       | 248 days | Wed 3/21/01 | Fri 3/1/02  |
| 3  | Attain ROW from FM 1460 to CR110                           | 165 days | Fri 6/15/01 | Thu 1/31/02 |
| 4  | Attain ROW for all of Chandler Road                        | 521 days | Mon 9/3/01  | Mon 9/1/03  |
| 5  | Utility Relocation (Design, Construction) FM 1460 to CR110 | 130 days | Thu 11/1/01 | Wed 5/1/02  |
| 6  | Construction FM 1460 to CR110                              | 175 days | Tue 1/1/02  | Mon 9/2/02  |

The Gantt chart displays the duration of each task across a timeline from 2001 to 2008. Task 1 is a single-day event in early 2001. Task 2 spans from mid-2001 to late 2002. Task 3 starts in mid-2001 and ends in late 2002. Task 4 begins in early 2002 and continues through early 2003. Task 5 runs from late 2001 to mid-2002. Task 6 starts in early 2002 and concludes in early 2003.

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**Project Status  
Precinct #1**

| <b>Project</b>                   | <b>Engineering</b> | <b>R.O.W.</b> | <b>Environmental</b> | <b>Utility<br/>Relocation</b> | <b>Construction<br/>Start</b> |
|----------------------------------|--------------------|---------------|----------------------|-------------------------------|-------------------------------|
| <b>McNeil Road</b>               | <b>30%</b>         | <b>0%</b>     | <b>10%</b>           | <b>10%</b>                    | <b>8/02</b>                   |
| <b>Pond Springs Rd.</b>          | <b>100%</b>        | <b>N/A</b>    | <b>0%</b>            | <b>N/A</b>                    | <b>11/01</b>                  |
| <b>Wyoming Springs<br/>South</b> | <b>30%</b>         | <b>0%</b>     | <b>10%</b>           | <b>0%</b>                     | <b>3/03</b>                   |

November 7, 2001

**Williamson County Road Bond Program**

## Project Status Precinct #2

| Project                 | Engineering | R.O.W. | Environmental | Utility Relocation | Construction Start |
|-------------------------|-------------|--------|---------------|--------------------|--------------------|
| CR 200                  | 5%          | 0%     | 50%           | 0%                 | 10/02              |
| CR 214                  | 95%         | 0%     | 0%            | 10%                | 3/03               |
| CR 214A                 | 20%         | 0%     | 0%            | 0%                 | 2/03               |
| CR 276/CR 278           | 20%         | 0%     | 0%            | 0%                 | 6/02               |
| FM 1869 @ SH 29         | 10%         | 0%     | 0%            | 0%                 | 4/02               |
| Oak Grove @ US 183      | 10%         | 0%     | 0%            | 10%                | 6/02               |
| Parmer Lane - South (S) | 40%         | 40%    | 85%           | 10%                | 5/02               |
| Parmer Lane - South (N) | 20%         | 35%    | 80%           | 0%                 | 8/02               |
| Riverbend Oaks          | 90%         | 0%     | N/A           | 25%                | 1/02               |

November 7, 2001

### Williamson County Road Bond Program

## Project Status Precinct #3

| Project                  | Engineering | R.O.W. | Environmental | Utility<br>Relocation | Construction<br>Start |
|--------------------------|-------------|--------|---------------|-----------------------|-----------------------|
| CR 175                   | 20%         | 10%    | 0%            | 25%                   | 6/02                  |
| G.I.L. * - Cedar Breaks  | 60%         | 100%   | 100%          | 90%                   | 4/02                  |
| G.I.L. * - East          | 40%         | 0%     | 100%          | 0%                    | 5/02                  |
| G.I.L. * - DB Woods      | 100%        | 100%   | 98%           | 90%                   | 11/01                 |
| G.I.L. * - DB Woods Ext. | 100%        | 50%    | 100%          | 0%                    | 2/02                  |
| Lakeline Blvd.           | 20%         | 0%     | 100%          | 10%                   | 1/03                  |
| Parmer Lane - North      | 10%         | 10%    | 75%           | 10%                   | 3/03                  |
| Shell Road               | 20%         | 100%   | 50%           | 10%                   |                       |
| Wyoming Springs<br>South | 20%         | 50%    | 10%           | 10%                   | 3/02                  |

\* G.I.L. - Georgetown Inner Loop

November 7, 2001

**Williamson County Road Bond Program**

## Project Status Precinct #4

| Project                   | Engineering | R.O.W. | Environmental | Utility Relocation | Construction Start |
|---------------------------|-------------|--------|---------------|--------------------|--------------------|
| Chandler Rd. - to FM 1660 | 10%         | 0%     | 0%            | 10%                | 7/02               |
| Chandler Rd. - to CR 110  | 60%         | 0%     | 85%           | 10%                | 3/02               |
| CR 119                    | 0%          | 0%     | 0%            | 0%                 | 11/02              |
| CR 137                    | 20%         | 0%     | 0%            | 10%                | 9/02               |
| CR 300                    | 15%         | 0%     | 0%            | 25%                | 7/02               |
| CR 368/CR 369             | 90%         | 0%     | 0%            | 25%                | 1/02               |
| CR 412                    | 80%         | 25%    | 0%            | 10%                | 5/02               |
| Hutto Loop                | 10%         | 0%     | 0%            | 0%                 |                    |
| US 79                     | 30%         | 5%     | 30%           | 10%                | 3/03               |

November 7, 2001

Williamson County Road Bond Program

## Process Enhancements

- Design Criteria Manuals
- Standard Professional Service Agreements
- Standard Construction Contracts
- Standard Construction Inspection Contracts
- Standardized Procedure for Reviewing Bids, Awarding Contracts and Monitoring Construction

November 7, 2001

Williamson County Road Bond Program

Updated: 11/05/01

| Project   | Engineer                        | Geotech                       |
|---|---------------------------------|-------------------------------|
| Cedar Hollow at SH 29   | Haynie Consulting               | Kohutek                       |
| Chandler Road (FM 1460 to FM 1660)  | Denmon Engineering              | Kohutek                       |
| CR 137 (County Line to FM 1660)   | Pate Engineers                  | Kohutek                       |
| CR 175 (FM 1431 to CR 176)  | Baker-Aicklen                   | Terra Mar                     |
| CR 200(CR 201 to Lackey Creek)  | K.C. Engineering                | N/A                           |
| CR 214 (SH 29 to Rolling Hills Rd.)   | Carter & Burgess                | N/A                           |
| CR 276 (Parmer Lane to Bagdad Rd.)  | Malone/Wheeler                  | Terra Mar                     |
| CR 300/CR 301 (FM 972 to FM 971)  | Pate Engineers                  | Kohutek                       |
| CR 368/369 (CR 101 to CR 366)   | Haynie Consulting               | Kohutek                       |
| CR 412 (FM 619 to CR 421)   | Inland Civil Associates         | Kohutek                       |
| CR 214A (realignment at FM 1869)  | Huggins/Seiler & Associates     | Fugro South                   |
| Georgetown Inner Loop<br>FM 2338 to D.B. Woods (Project 1): Cedar Breaks              | PBS&J                           | HVJ Associates                |
| Georgetown Inner Loop<br>D.B. Woods Reconstruction - Middle Fork to SH 29 (Project 2) | PBS&J                           | HVJ Associates                |
| Georgetown Inner Loop<br>SH 29 to FM 2234: D.B. Wood Reconstruction (Project 3)       | Steger & Bizzell                | Jack Holt<br>Steger & Bizzell |
| Georgetown Inner Loop<br>FM 2234 to IH-35 (Project 4)                                 | HDR Engineering                 | N/A                           |
| Georgetown Inner Loop<br>2338 to Shell Road: Shell Road Realignment (Project 5)       | PBS&J                           | HVJ                           |
| Georgetown Inner Loop (East)<br>FM 971 to SH 29                                       | Steger & Bizzell                | N/A                           |
| Lakeline Blvd. (Lyndhurst to Parmer Lane)   | Carter & Burgess                | Terra Mar                     |
| McNeil Road (County Line/McNeil Cutoff to proposed SH 45)                             | Gray Jansing & Associates       | Terra Mar                     |
| Oak Grove at US 183   | Huggins/Seiler & Associates     | N/A                           |
| Parmer Lane South (FM 1431 to SH 29)  | Turner, Collie & Braden         | Fugro South                   |
| Parmer Lane North (SH 29 to FM 2338)  | PBS&J                           | Fugro South                   |
| Pond Springs Road/Turtle Rock Road  | WHM-Huggins/Seiler & Associates | N/A                           |
| River Bend Oaks Subdivision   | Haynie Consulting               | Kohutek                       |

|  |                                    |           |
|--|------------------------------------|-----------|
| SH 29 at FM 1869 (Traffic Signal                             | Huggins/Seiler & Associates        | N/A       |
| US 79 (CR 110 to Milam County Line)                          | Carter & Burgess                   | Terra Mar |
| Wyoming Springs Road (RM 620 to McNeil Road)                 | Baker-Aicklen                      | Terra Mar |
| Wyoming Springs Road (FM 1431 to Sam Bass Road/Brushy Creek) | Haynie Consulting                  | Kohutek   |
| Safety/Mobility Projects (66 priority locations)             | WHM, Alliance Texas<br>Engineering | N/A       |
| Hutto Bypass (CR 136 - CR 110)                               | Pate                               | Kohutek   |
| CR 119 (Hutto Bypass - US 79)                                | Pate                               | Terra Mar |

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**SH 45/Loop 1 Toll Road  
Right of Way/Utilities**

|           |                     |  |
|-----------|---------------------|--|
| <b>A.</b> | <b>SH 45 East</b>   | <b>\$60.0 million</b>                        |
|           | Nov. 1, 2001        | \$20.0 million                               |
|           | June 1, 2002        | \$20.0 million                               |
|           | Dec. 1, 2002        | \$20.0 million                               |
| <b>B.</b> | <b>SH 45 West</b>   | <b>\$55.0 million</b>                        |
|           | Dec. 31, 2001       | \$12.0 million                               |
|           | April 1, 2002       | \$30.0 million                               |
|           | July 1, 2002        | \$13.0 million                               |
| <b>C.</b> | <b>Loop 1 North</b> | <b>\$8.0 million (50% of total estimate)</b> |
|           | April 1, 2002       | \$8.0 million                                |
|           | <b>TOTAL</b>        | <b>\$123.0 million</b>                       |



# **Williamson County**

## **Road Bond Program**

### **Environmental Compliance Strategy**

**Steve Paulson**

**President, athabasca consulting, inc.**



# Introduction:

## Process to Ensure Compliance with Applicable Federal and State Requirements

- I. Applicable Laws
- II. Constraints Mapping
- III. Site Investigation
- IV. Agency Interaction
- V. Permit Process
- VI. Long Range Planning



# I. Applicable Laws

- A. Endangered Species Act
- B. Clean Water Act
- C. Federal and State Antiquities Codes
- D. Texas Natural Resource Conservation  
Commission Edwards Aquifer Rules
- E. Comprehensive Environmental Response,  
Compensation, and Liability Act, Resource  
Conservation and Recovery Act (UST Program)



## A. Endangered Species Act

1. Section 9: Take
2. Section 7: Consultation
3. Section 4: Recovery
4. Section 10: Incidental Take
5. Section 6: Funding
6. Section 11: Enforcement



# A. Endangered Species

## 1. Karst Invertebrates

- a. Bone Cave Harvestman
- b. Tooth Cave Ground Beetle
- c. Coffin Cave Mold Beetle

## 2. Birds

- a. Golden-cheeked Warbler
- b. Black-capped Vireo
- c. Mountain Plover (Proposed Threatened)
- d. Whooping Crane
- e. Bald Eagle (Threatened)



## B. Clean Water Act (Section 404)

1. Nationwide Permits
  - a. Nationwide Permit 14: Linear Transportation Crossings
  - b. Nationwide Permit 39: Residential, Commercial, and Institutional Development
2. Individual Permits



## C. Federal and State Antiquities Codes

1. National Historic Preservation Act (1966)
  - A. National Register of Historic Places (106)
2. Native American Grave Protection and Repatriation Act
3. Antiquities Act of Texas
  - A. Rules of Practice and Procedure for the Texas Antiquities Act



## D. TNRCC Edwards Aquifer Rules

### 1. Texas Administrative Code

Title 30: Environmental Quality

Part 1: TNRCC

Chapter 213: Edwards Aquifer





## E. CERCLA / RCRA (UST Programs)

1. Phase I: Site Assessment
2. Phase II: Investigation (Sampling)
3. Phase III: Environmental Recovery  
(Cleanup)



## II. Constraints Mapping

### A. Endangered Species Act

1. Karst Invertebrates
2. GCW / BCV

### B. Clean Water Act (Section 404)

1. Waters of the U.S. mapping (USGS and Aerial)



## II. Constraints Mapping

### C. Cultural Resources

1. Texas Archeological Research Laboratory (TARL)
2. Williamson County Historical Society (WCHS)

### D. TNRCC Edwards Aquifer Rules

1. Recharge / Contributing Zone Maps



### III. Site Investigation

- A. Karst
- B. Golden-cheeked Warbler and Black-capped Vireo
- C. Jurisdictional Waters
- D. Cultural Resources Surveys
- E. Phase I Site Assessments



## A. Karst

1. USFWS (ESA)
  - a. Intensive Walking Survey (Zones 1 and 2)
  - b. Pedestrian Survey (Zones 3 and 4)
  - c. Detailed Assessment
2. TNRCC (Edwards Aquifer Rules)
  - a. Geologic Assessment Survey (Recharge Zone)



## B. Golden-cheeked Warbler and Black-capped Vireo

1. Habitat Evaluation (Year round)
2. Censusing Survey
  - a. Golden-cheeked Warbler (March 20 to May 15)
  - b. Black-capped Vireo Surveys (April 1 to July 15)
3. Relationship to Waters of the U.S.



## C. Jurisdictional Waters (CWA / Section 404)

1. Waters of the U.S. Assessment
2. Wetlands Delineation



## D. Cultural Resources

1. Pedestrian Survey (Shovel Test / Backhoe Trench)
  - a. Texas Historical Commission Permit
2. Windshield Survey (Historical Structures)
  - a. Texas Historical Commission Permit
3. Williamson County Historical Society
  - a. Records Search and Coordination





## E. Phase I Site Assessment

1. Records Search
  - a. Historic Aerial Photographs
  - b. Gas Stations
  - c. Contaminated Sites
  - d. Landfills
2. Site Reconnaissance
3. Interviews with Key Personnel



## IV. Agency Interaction

### A. Relevant Agencies

1. USFWS / TPWD
2. USACE / EPA
3. TNRCC
4. THC / WCHS



## IV. Agency Interaction

### B. Early Contact

1. USFWS / TPWD
2. USACE
3. THC / WCHS



## V. Permit Process

- A. Clean Water Act (Section 404)
- B. Endangered Species Act
- C. Federal and State Antiquities Codes
- D. TNRCC Edwards Aquifer Rules
- E. CERCLA / RCRA (UST Program)



## A. Clean Water Act (Section 404)

1. NWPs (EPA, TNRCC, USFWS, TPWD, and THC)
2. Individual Permits (EPA, TNRCC, USFWS, TPWD, and THC)



## B. Endangered Species Act

1. Section 9: No Take
2. Section 7: Federal Nexus (USACE)
3. Section 10: Incidental Take
4. Section 4: Recovery



# C. Federal and State Antiquities Codes

1. Federal (Section 404 Waters)
  - a. THC Permit Application
  - b. Field Investigation and Report
  - c. THC Authorization
  - d. Potential Constraints / Additional Requirements
  - e. Inclusion in Section 404 Permit Application
2. State
  - a. THC Permit Application
  - b. Field Investigation and Report
  - c. THC Authorization
  - d. Potential Constraints /  
Additional Requirements



# D. TNRCC Edwards Aquifer Rules

1. Geologic Assessment
2. Water Pollution Abatement Plan (WPAP)
3. TNRCC Authorization
4. Potential Constraints / Additional Requirements





## E. CERCLA / RCRA (UST Program)

1. If Hazardous Materials / Petroleum Substance identified in Phase I Site Investigation
  - a. Phase II Investigation (Sampling) after consultation with the TNRCC
  - b. Phase III Cleanup / Voluntary Cleanup Program (TNRCC)



## VI. Long Term Planning

### A. Endangered Species Act Mitigation Banks

1. Karst
2. Golden-cheeked Warbler
3. Black-capped Vireo

### B. Clean Water Act Section 404 Mitigation Banks

### C. Endangered Species Act Recovery Planning

1. Karst Faunal Areas



# Example Project

Proposed Extension of Parmer Lane

F.M. 1431 to R.M. 2243



# Jurisdictional Waters Calculations

| WAT # | Width  | Linear Ft. | Square Ft. | Acreage |
|-------|--------|------------|------------|---------|
| 2     | 21.7   | Bridge     | Columns?   | ?       |
| 3     | 5.2    | 370        | 1924       | 0.044   |
| 4     | 28.8   | 200        | 5760       | 0.132   |
| 5     | 5.8    | 200        | 1160       | 0.027   |
| 6     | 2.45   | 200        | 490        | 0.01    |
| 7     | Access | 217        | Access     | Access  |
| 8     | 11.1   | 250        | 2775       | 0.064   |
| Total |        |            |            | 0.277*  |

\* Not including WAT 7 and WAT 2.



# Potential GCW Habitat Calculations

| Section | Rating | Direct | Indirect | Totals |
|---------|--------|--------|----------|--------|
| 1       | Mod.   | 0.45   | 1.43     | 25.23  |
| 2       | Low    | 0.87   | 2.78     | 36.1   |
| 3       | Low    | 5.07   | 10.52    | 21.25  |
| 4       | None   | 0      | 0        | 0      |
| 5       | None   | 0      | 0        | 0      |
| 6       | Mod    | 1.82   | 4.66     | 10.32  |
| 7       | Low    | 12.95  | 29.59    | 50.73  |



# GCW Mitigation Direct / Indirect

| Section | Rating | Mitigation<br>Direct | Mitigation<br>Indirect | Total<br>Mitigation |
|---------|--------|----------------------|------------------------|---------------------|
| 1       | Mod.   | 0.9                  | 1.43                   | 2.33                |
| 2       | Low    | 0.87                 | 1.39                   | 2.26                |
| 3       | Low    | 5.07                 | 5.26                   | 10.33               |
| 6       | Mod.   | 3.64                 | 4.66                   | 8.3                 |
| 7       | Low    | 12.95                | 14.8                   | 27.75               |

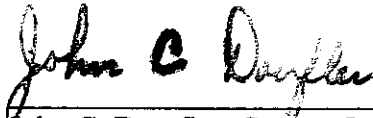


# GCW Mitigation Full Indirect Take

| Section | Rating | Mitigation<br>Full Indirect |
|---------|--------|-----------------------------|
| 3       | Low    | 21.25                       |
| 6       | Mod    | 20.64                       |
| 7       | Low    | 50.73                       |



THE FOREGOING MINUTES recorded on Minutes Pages 1 through 72, inclusive had at a Special Session of Commissioners' Court of Williamson County, Texas, having been read are hereby approved this 13th day of November, 2001.



John C. Doerfler, County Judge

ATTEST: Nancy E. Rister, Clerk County Court & Ex-officio Clerk,  
Commissioners' Court, Williamson County, Texas

By:   
Deputy Clerk