

## Regular Agenda

AGENDA ITEM # 19JULY 27, 1999Discuss and take appropriate action on Taylor Airport Road.

Commissioner Limmer advised he had no financial interest in the development of Taylor Airport Road, excused himself from discussion of the item and left the dais.

City of Taylor City Manager Frank Salvato distributed a preliminary engineering report from Turner, Collie and Braden Engineering. When attorney Ted Hejl addressed the court on March 30, 1999, he offered the cooperation of the City of Taylor to work with Williamson County in building a new road west of the Taylor Airport.

The motion approved under Agenda item #12 on that day was, "To appoint County Attorney Gene Taylor and Taylor City Attorney Ted Hejl to work on an interlocal agreement for the construction of a new road west of the Taylor Airport with cost estimates." (Volume 103, page 339 of Williamson County Commissioners Court minutes).

Agenda item #16 of May 4, 1999, motion read, " To approve \$4,250.00 payment from Williamson County economic development funds to Turner, Collie and Braden for preliminary engineering plans study for road west of Taylor Airport from FM 397 (Loop) to Highway 79". (Volume 103, page 934 of Williamson County Commissioners Court minutes). The Taylor Economic Development Corporation had also agreed to pay \$4,250.00 for the \$8,500.00 study. (See copy of proposal recorded in Volume 103, pages 965 through 968 of the Williamson County Commissioners Court minutes).

The overall project total is \$2,416,224.00 - Phase I (\$961,394.00) consists of building a road from Loop 397 south around the west side of the airport into the airport property extending the existing 3500' runway to 4,000'. Phase II (\$1,454,830.00) would begin in the middle of the Taylor Airport property building a road south across Mustang Creek with a bridge to tie into Highway 79 with extension of runway to 4,500'.

The City Manager requested Williamson County assistance in payment of a portion of or all of the \$961,000.00. The current and 1999/2000 city budgets and Taylor Economic Development Corporation commit \$980,000.00 to be spent on the airport. Accomplishments thus far include building Tee hangers, installation of 24 hour fuel system and removal of old underground fuel tanks. A \$160,000.00 Tx Dot matching grant has been accomplished and Taylor Economic Development Corporation is purchasing land north of existing County Road 398 for future expansion.

The City of Taylor, owner of the Taylor Airport, will be responsible for extension of water service to the airport area.

Moved: Commissioner Heiligenstein

Seconded: Judge Doerfler

Motion: To support Phase I to the fullest extent possible even if issuance of a Certificate of Obligation is required.

Vote: Motion carried 4 - 0 with Commissioner Limmer absent from the dais.  
< Clerk copy here >

# Turner Collie & Braden Inc.

Engineers • Planners • Project Managers

400 West 15th Street  
Suite 500  
Austin, Texas 78701  
512 472-4519  
Fax 512 472-7519

June 18, 1999

Mr. Frankie Limmer  
Williamson County Commissioner Pct #4  
PO Box 1104  
Taylor, Texas 76574

**Re: Preliminary Engineering Report  
Taylor Municipal Airport**

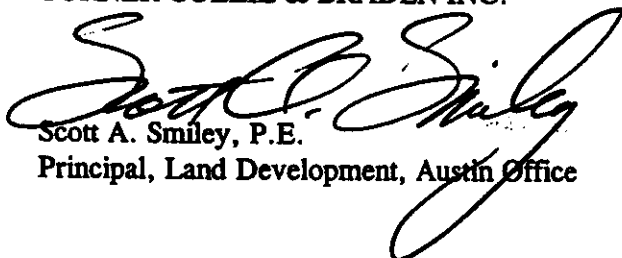
Dear Commissioner Limmer:

We have completed our preliminary engineering work for the proposed improvements at the Taylor Municipal Airport. Based on our preliminary analysis, the cost to construct the western perimeter roadway will total approximately \$2.42 M, including \$854,000 for bridge construction. In addition, the enclosed airport concept plan provides a phased approach to provide additional airplane storage and parking facilities.

Thank you for the opportunity to perform this preliminary engineering report for Williamson County and the Taylor Economic Development Corporation.

Very truly yours,

TURNER COLLIE & BRADEN INC.

  
Scott A. Smiley, P.E.  
Principal, Land Development, Austin Office

SAS/jsb

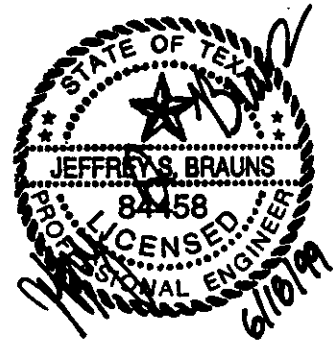
Enclosure

85

C:\DATA\Project\Taylor Airport\Preliminary Engineering Report.doc

Established in 1946  
Engineering Excellence for Over One-Half Century  
COLORADO / FLORIDA / PENNSYLVANIA / TEXAS / WASHINGTON D.C.

**PRELIMINARY ENGINEERING REPORT**  
**FOR**  
**TAYLOR MUNICIPAL AIRPORT**  
**WESTERN PERIMETER ROADWAY**



**PREPARED FOR**  
**WILLIAMSON COUNTY**  
**AND**  
**TAYLOR ECONOMIC DEVELOPMENT CORPORATION**

**BY**  
**Turner Collie & Braden Inc.**

**JUNE 1999**

Taylor Municipal Airport  
Williamson County/Taylor Economic Development Corporation

June 1999

## PROJECT LOCATION

The Taylor Municipal Airport is located on the west side of the City of Taylor in eastern Williamson County. The study area is bounded by US 79 to the south and FM 397/Loop 427 to the east.

## PROJECT PURPOSE

The purpose of this report is to determine the probable construction costs for a new western perimeter roadway and to develop a concept plan that provides additional airplane parking and storage capacity.

## PROJECT BACKGROUND

The Taylor Economic Development Corporation seeks to construct the western perimeter roadway to open the west side of the airport to industrial development. The proposed additional airplane parking and storage facilities will aid in promote the Taylor Municipal Airport as an alternate to Austin Bergstrom International for general aviation users.

## DESIGN CRITERIA

### Roadway

Right of Way: 80 feet  
Roadway width: 28 feet (2-12' lanes, 2-2' shoulders)  
Roadway section: 4 inches asphalt concrete pavement, 18 inches base material  
Design speed: 50 mph

The above roadway design criteria was provided by Joe England, Williamson County Engineer

### Assumptions:

- Generally flat terrain
- Non-signalized intersections at US 79 and FM 397
- Illumination provided only at intersections (US 79, CR 398, and FM 397), one luminaire per intersection
- Ditch bottom one foot below roadway subgrade

### Bridge

Design load: HS 20-44 (TxDOT Bridge Division Operations and Planning Manual 1984, 2-28)  
Bridge width: 34 feet (TxDOT Bridge Division Operations and Planning Manual 1984, Table 2-A)

Taylor Municipal Airport  
Williamson County/Taylor Economic Development Corporation

June 1999

Embankment: 2:1 (H:V) slopes perpendicular to abutment cap  
3:1 slopes perpendicular to roadway  
5 inch class B concrete riprap slope treatment on 2:1 slopes  
(TxDOT Bridge Division Operations and Planning Manual 1984, 2-15)

Design freeboard: 2 feet above design high-water (TxDOT Bridge Division Hydraulics Manual 1985, 5-7)

Design storm: 100 year

Design high-water: 548 feet above mean sea level (FIRM 1991, Panel 262)

Floodway width: approximately 175 feet (FIRM 1991, Panel 262)

Existing ground contour information obtained from 1964 USGS 7.5 minute Taylor quadrangle (Photorevised 1989)

**Assumptions:**

- Current (opening year) Average Daily Traffic between 400 and 750
- Bridge abutments to be located within 100 year floodplain, approximately 30 feet outside floodway limits
- Bridge span/distance between 500 foot contours equals 600 feet
- Precast concrete I-girder bridge
- Approach profiles at 3% grade

**Waterline**

Size: 12 inch diameter waterline to provide adequate fireflow and meet the needs of future airport development

Hydrant spacing: 300 feet, based on industrial land use

**PROBABLE COST OF IMPROVEMENTS**

Based on our preliminary analysis, the cost to construct the western perimeter roadway will total approximately \$2.42 M, including \$854,000 for bridge construction. A summary of these costs are shown in Exhibit 1. The roadway cost is divided into two phases. Phase One includes the northern segment, beginning at FM 397/Loop 427 and continuing south to a new western airport entrance, located approximately 900 feet north of Mustang Creek. Phase Two includes the southern portion of the roadway connecting to US 79 and the bridge over Mustang Creek. Roadway unit prices were derived using TxDOT Austin District Bid Tabs in addition to bid information from recent TC&B projects. The bridge unit price information was provided by Joe England, Williamson County Engineer (approximately 2.85 times average TxDOT unit price).

Taylor Municipal Airport  
Williamson County/Taylor Economic Development Corporation

June 1999

#### AIRPORT CONCEPT PLAN

A plan to provide increased airplane storage and parking is shown in Exhibit 2. Proposed T-hangers and tie-down areas are located on either side of the existing runway and are arranged to allow phased construction. Group 2 aircraft were used as the design aircraft for offsets for setbacks.

# TAYLOR MUNICIPAL AIRPORT

QUANTITIES OF MATERIALS AND WORKMAN

## Preliminary Construction Cost Analysis Summary

<b>Limits</b>	<b>FROM: US 79</b>	<b>TO: FM 397</b>
<b>Length</b>	<b>8,650 ft</b>	
ITEM		ITEM TOTAL
ROW Preparation		\$ 51,750
Roadway		\$ 520,602
Earthwork		\$ 122,640
Drainage		\$ 2,500
Structures		\$ 853,800
Traffic Control		\$ 18,911
Miscellaneous		\$ 339,855
Mobilization		\$ 191,006
Engineering & Contingencies		\$ 315,160
<b>CONSTRUCTION TOTAL</b>		<b>\$ 2,416,224</b>

22-50835-001

Exhibit 1

06/18/1999

## TAYLOR MUNICIPAL AIRPORT

## WESTERN PERIMETER ROADWAY

Preliminary Construction Cost Analysis  
Total

Limits		FROM: US 79		TO: FM 397	
Length		8,650 ft			
ITEM		QUANTITY	UNIT	UNIT COST	ITEM TOTAL
ROW Prep	Prepare ROW		STA	\$ 500.00	\$ 43,250
	Obliterate and Abandon Existing Roadway		STA	\$ 425.00	\$ 8,500
	Subtotal				\$ 51,750
Roadway	HMAC 4" Type C		SY	\$ 6.00	\$ 156,798
	Roadway Base		CY	\$ 15.00	\$ 318,000
	4" Thermoplastic Striping		LF	\$ 0.24	\$ 8,304
	MBGF		LF	\$ 12.50	\$ 5,000
	GET		EA	\$ 2,500.00	\$ 10,000
	Illumination		LS	\$ 1.00	\$ 20,000
	Permanent Signing		LS	\$ 1.00	\$ 2,500
Subtotal					\$ 520,602
Earthwork	Excavation		CY	\$ 8.00	\$ 85,840
	Embankment		CY	\$ 8.00	\$ 36,800
Subtotal					\$ 122,640
Drainage	Misc. Cross Culverts		LS	\$ 1.00	\$ 2,500
Subtotal					\$ 2,500
Structures	Bridge- Conc I-Beam		SF	\$ 100.00	\$ 850,000
	Embankment Protection		CY	\$ 200.00	\$ 3,800
Subtotal					\$ 853,800
Traffic Control	Traffic Control- High			10.00%	\$ -
	Traffic Control- Medium			5.00%	\$ -
	Traffic Control- Low			1.00%	\$ 18,911
	Subtotal			1.22%	\$ 18,911
Miscellaneous	12" Waterline C900		LF	\$ 32.00	\$ 276,800
	Hydrant		EA	\$ 1,400.00	\$ 23,800
	Temporary Erosion Control			2.50%	\$ 39,255
	Subtotal				\$ 339,855
Mobilization				10.00%	\$ 191,006
Engineering & Contingencies				15.00%	\$ 315,160
CONSTRUCTION TOTAL					\$ 2,416,224

RECORDERS MEMORANDUM  
All or parts of the text on this page was not  
clearly legible for satisfactory recordation.

91



22-50835-001

Exhibit 1

06/18/1999

**TAYLOR MUNICIPAL AIRPORT****WESTERN PERIMETER ROADWAY****Preliminary Construction Cost Analysis  
Phase 1**

Limits	FROM: New West Airport Entrance		TO: FM 397		
Length	6,750 ft				
	ITEM	QUANTITY	UNIT	UNIT COST	ITEM TOTAL
ROW Prep	Prepare ROW		STA	\$ 500.00	\$ 33,750
	Obliterate and Abandon Existing Roadway		STA	\$ 425.00	\$ 8,500
	Subtotal				\$ 42,250
Roadway	HMAC 4" Type C		SY	\$ 6.00	\$ 122,357
	Roadway Base		CY	\$ 15.00	\$ 248,150
	4" Thermoplastic Striping		LF	\$ 0.24	\$ 6,480
	MBGF		LF	\$ 12.50	\$ -
	GET		EA	\$ 2,500.00	\$ -
	Illumination		LS	\$ 1.00	\$ 15,000
	Permanent Signing		LS	\$ 1.00	\$ 1,951
	Subtotal				\$ 393,938
Earthwork	Excavation		CY	\$ 8.00	\$ 66,985
	Embankment		CY	\$ 8.00	\$ -
Subtotal				\$ 66,985	
Drainage	Misc. Cross Culverts		LS	\$ 1.00	\$ 2,000
Subtotal				\$ 2,000	
Structures	Bridge- Conc I-Beam		SF	\$ 100.00	\$ -
	Embankment Protection		CY	\$ 200.00	\$ -
Subtotal				\$ -	
Traffic Control	Traffic Control- High			10.00%	\$ -
	Traffic Control- Medium			5.00%	\$ -
	Traffic Control- Low			1.00%	\$ 7,525
	Subtotal			1.49%	\$ 7,525
Miscellaneous	12" Waterline C900		LF	\$ 32.00	\$ 216,000
	Hydrant		EA	\$ 1,400.00	\$ 18,480
	Temporary Erosion Control			2.50%	\$ 12,817
	Subtotal				\$ 247,297
Mobilization				10.00%	\$ 76,000
Engineering & Contingencies				15.00%	\$ 125,399
CONSTRUCTION TOTAL					\$ 961,394

92

**RECORDERS MEMORANDUM**  
 All or parts of the text on this page was not  
 clearly legible for satisfactory recordation.

22-50835-001

Exhibit 1

06/18/1999

## TAYLOR MUNICIPAL AIRPORT

## WESTERN PERIMETER ROADWAY

## Preliminary Construction Cost Analysis

## Phase 2

<b>Limits</b>	<b>FROM: US 79</b>		<b>TO: New West Airport Entrance</b>		
<b>Length</b>	1,900 ft				
	<b>ITEM</b>	<b>QUANTITY</b>	<b>UNIT</b>	<b>UNIT COST</b>	<b>ITEM TOTAL</b>
ROW Prep	Prepare ROW		STA	\$ 500.00	\$ 9,500
	Obliterate and Abandon Existing Roadway		STA	\$ 425.00	\$ -
	<b>Subtotal</b>				\$ 9,500
Roadway	HMAC 4" Type C		SY	\$ 6.00	\$ 34,441
	Roadway Base		CY	\$ 15.00	\$ 69,850
	4" Thermoplastic Striping		LF	\$ 0.24	\$ 1,824
	MBGF		LF	\$ 12.50	\$ 5,000
	GET		EA	\$ 2,500.00	\$ 10,000
	Illumination		LS	\$ 1.00	\$ 5,000
	Permanent Signing		LS	\$ 1.00	\$ 549
	<b>Subtotal</b>				\$ 126,664
Earthwork	Excavation		CY	\$ 8.00	\$ 18,855
	Embankment		CY	\$ 8.00	\$ 36,800
	<b>Subtotal</b>				\$ 55,655
Drainage	Misc. Cross Culverts		LS	\$ 1.00	\$ 500
	<b>Subtotal</b>				\$ 500
Structures	Bridge- Conc I-Beam		SF	\$ 100.00	\$ 850,000
	Embankment Protection		CY	\$ 200.00	\$ 3,800
	<b>Subtotal</b>				\$ 853,800
Traffic Control	Traffic Control- High			10.00%	\$ -
	Traffic Control- Medium			5.00%	\$ -
	Traffic Control- Low			1.00%	\$ 11,387
	<b>Subtotal</b>			1.09%	\$ 11,387
Miscellaneous	12" Waterline C900		LF	\$ 32.00	\$ 60,800
	Hydrant		EA	\$ 1,400.00	\$ 5,320
	Temporary Erosion Control			2.50%	\$ 26,438
	<b>Subtotal</b>				\$ 92,558
Mobilization				10.00%	\$ 115,006
Engineering & Contingencies				15.00%	\$ 189,760
<b>CONSTRUCTION TOTAL</b>					<b>\$ 1,454,830</b>

RECORDERS MEMORANDUM  
 All or parts of the text on this page was not  
 clearly legible for satisfactory recordation.

93

## AGENDA ITEM # 20

JULY 27, 1999

\*

Consider approving resolution congratulating City of Taylor as finalist for All American City Award.

Moved: Judge Doerfler

Seconded: Commissioner Boatright

Motion: To approve resolution congratulating City of Taylor as finalist for All American City Award.

Vote: Motion carried 5 - 0

< Clerk copy here >

*State of Texas  
County of Williamson  
Know all men by these presents:*

THAT ON THIS, the 27<sup>th</sup> day of July, 1999, the Commissioners Court of Williamson County, Texas, met in duly called session at the Courthouse in Georgetown, Texas, with the following members present:

John C. Doerfler, County Judge  
Mike Haligenstein, Commissioner, Pct #1  
Greg Boatright, Commissioner, Pct #2  
David Hays, Commissioner, Pct #3  
Frankie Linder, Commissioner, Pct #4  
Nancy Rister, County Clerk

And at said meeting, among other business, the Court considered the following

**RESOLUTION**

Whereas, 1999 is the year of the All American City Award, which is the oldest and most respected award given to cities in America; and

Whereas, the City of Taylor, through its efforts in transportation, education, economic development, literacy, and parks, is a Williams County partner with the State of Texas, County of Williamson, neighboring cities, and private and non-profit organizations, and all segments of the community; and

Whereas, the City of Taylor is highlighted for citizen participation in Turn Around Taylor, for support of education with Temple College in Taylor and the technology center at the Taylor Public Library.

NOW THEREFORE BE IT RESOLVED that We the Williamson County Commissioners Court, do hereby recognize and congratulate the City of Taylor as a participating finalist for All America City Award.

*John C. Doerfler* 7-27-99  
John C Doerfler, County Judge

ATTEST

Nancy Rister, County Clerk

RECORDERS MEMORANDUM  
All or parts of the text on this page was not  
clearly legible for satisfactory recordation.