Oxford® NO. R753 1/3

Sue Ellen - Please Creatice
film "your area" for this
called
"TXDOT OFF SYSTEM BRIDGE
TRUENTORY"
Thanks Jem—

REPORT ON:

FY 2003 OFF-SYSTEM BRIDGE INVENTORY, INSPECTION AND APPRAISAL PROGRAM

DALLAS DISTRICT

CITY OF ADDISON

PRESENTED TO:

CITY OF ADDISON

PREPARED FOR

TEXAS DEPARTMENT OF TRANSPORTATION DALLAS DISTRICT

OCTOBER 2003



2003 OFF-SYSTEM BRIDGE INVENTORY, INSPECTION AND APPRAISAL PROGRAM TXDOT DALLAS DISTRICT CITY OF ADDISON

CONTENTS:

- I. State Notice Concerning Load Posting of Weak Bridges
- II. Map of Inspection Area Included in This Report
- III. Bridge Condition List for Structures Included in This Report
- IV. Structures Included In This Report:

1.	P001-00-003	Midway Road	over	Hutton Branch
2.	P001-45-001	Lake Forest Drive	over	Tributary of White Rock Creek
3.	P002-00-001	Farmbrook Drive	over	Farmers Branch
4.	P002-20-001	Oaks North Drive	over	White Rock Creek Tributary

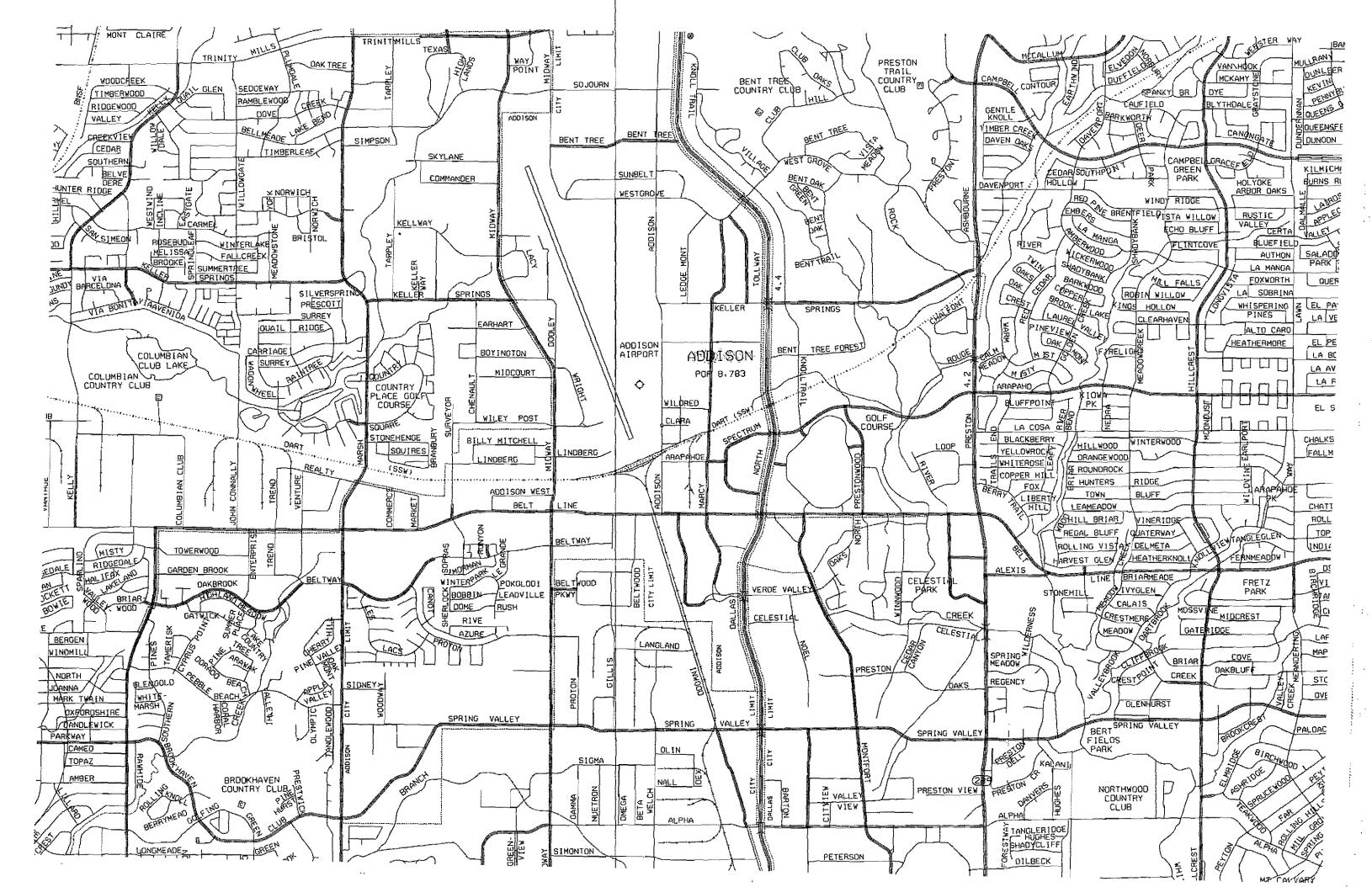
The following report has been prepared for your convenience in administering bridge management in your county. It includes Bridge inspection records, Bridge summary sheets and Bridge photos.

The scope of this investigation included a detailed field inspection of each bridge. Since plans were available for only the newest structures, measurements were made in the field of those members deemed necessary to perform a structural analysis of the bridge. Utilizing the data obtained by inspection, a structural review was made of each bridge, and its load carrying capacity was estimated in terms of an Inventory Rating Load (Heaviest load that can safely use the bridge for an indefinite period of time without causing permanent damage) and an Operating Rating Load (Maximum permissible load that can safely use the bridge on an occasional basis). It should be noted that these ratings represent the best estimate possible with a thorough visual field inspection of an existing structure, upholding a reasonable standard of care by use of routine inspection tools as afforded by routine means of access.

A Bridge Inspection Record was completed for each structure, a condition rating was determined for each of seven (7) elements of the structure. These include deck, superstructure, substructure, channel, culverts, approaches, and miscellaneous items.

A Bridge Summary Sheet containing recommended weight limits for those structures that require a posted weight limit, component ratings and recommended repairs. These are repairs that should be made to lengthen the useful life of the structure. Those structures included in the list should be repaired as soon as maintenance funds are available within the County's normal maintenance program.

State law (Sec. 9 of House Bill 1547) requires that all structures which have been structurally analyzed and rated in this report be posted or closed in accordance with the recommendations herein.





P.O. BOX 133067 • DALLAS, TEXAS 75313-3067 • (214) 320-6100

December 10, 2003

Mr. Michael Murphy Director of Public Works City of Addison P.O. Box 9010 Addison, TX. 75001-9010

RE: Off-System BRINSAP Summary Package

Dear Mr. Murphy:

An inspection and analysis of Off-System public bridges, consistent with Federal Regulations and the National Bridge Inspection Standards, was recently completed by this department. The bridge inspection was conducted and the recommendations were prepared by private consultants. Since some bridges are within your jurisdiction and subject to your control, supervision and maintenance, we are forwarding Summary Packages containing the following for each structure. This information can be used in carrying out your responsibilities for the bridge maintenance, repair, closures, and weight limit posting.

- 1. Bridge Summary Sheet
- 2. Bridge Inspection Record
- 3. Color Photos
- 4. Bridge location map

Please notify us of any other new or old structures within your jurisdiction that need to be added to or deleted from our database.

If you have any questions, comments, suggestions or need additional information, please contact Mr. Ibrahim Musa, P.E. in the Dallas District Bridge Section, at tel. (214)320-4423 or fax (214)319-6439.

Sincerely,

IAM/dla Attachments Anthony Okafor, P.E. District Bridge Engineer

 Cd8	4 00	85	865	ťΰ	2 Di 3 Cd8 4 Cd8 5 8 6 \$5 14 Place	6 1 Feat Xed	7 Fac Carried	9 Location	126 Dist Us
37 P(001	00	003	<u>~</u>	18 057 P001 00 003 1 00200 HU	IUTTON BRANCH	MIDWAY ROAD	0.2 MIN KELLER SP. RD.	03
37 P(001	45	00	- -	18 057 P001 45 001 1 00200 WH	WHITE ROCK CREEK TRIB	LAKE FOREST DRIVE	ITE ROCK CREEK TRIB LAKE FOREST DRIVE 0.1 MI SO OF BELT LINE RD	03
37 P(302	00	001	Ψ.	00200	18 057 P002 00 001 1 00200 FARMERS BRANCH	FARMBROOK DRIVE	FARMBROOK DRIVE 0.1 MI S OF BROOKHAVEN CR 03	03
<u>7</u>	302	20	001	<u>-</u>	18 057 P002 20 001 1 00200 WH	WHITE ROCK CREEK TRIB	OAKS NORTH DRIVE	HITE ROCK CREEK TRIB OAKS NORTH DRIVE 0.1 MIS OF BELT LINE RD	03

2003 OFF-SYSTEM MAINTENANCE REPAIR FORM (City of Addison)

:

DATE			- An Waller An W	**************************************					And Authority of the last		The same of the sa	v 9	V VVV
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RESPONSE		r				444							
	<u> </u>	5003											*
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MEND GRAD	ions, sím e banks, ynstream	e in hole											
SECON.	Construct gabions, similar to those along the banks, along the banks, along the and of the downstream apron.	Pump convrete in hole under approach slab.											
DESCRIPTION DATE OF CONTRIBUTION DATE	Cont Prost												
Š	as as el apron e 2" and	racks It slab, cr on on ar leas											
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	Moderate to severe crosion of the downstream channel has undennined the channel apron 4 feet, causing it to settle 2" and crack in two.	Moderate settlement cracks through south approach slab, curb, and sidewalk. Approach slab has been undermined 6" deep and at least 10' back,	:										
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1085 	¥n	\$											
CROSSED	,reck				•								W.W.W.W.
ROSSE	e Rock (Branch											-
TURE	Tributary of White Rock Creek	Framers Branch											
	Tribula												
Ľ.										***			
AME O	i Drive	k Drive											4
NVAYA	Lake Forest Drive	Farmbrook Drive											
HIGHWAY NAME OR REATURE CROSSED	Ĺ.	NÁM											
	1-001	1-00-1											***************************************
	18-057.P001-45-001	18-02-00-2091									W thirt also		
	18-057	18-055											

BRIDGES WITHOUT PLANS IN THE BRINSAP FILE

(Culverts Excluded & Railroad Overpasses)

Bridge ID	Facility Carried	Featured Crossed
P002-00-001	Farmbrook Drive	Farmers Branch

<u> </u>		

NO OTHER CONDITIONS WHICH REQUIRE MAINTENANCE AT THIS TIME

10/20/2003 Page 1 of 1 Barnhart Engineering



Modelled (12-5-2000)					
District:	18 County: 057 Cont-	P001-00	Structure:	003 Route: Midway Road	
				ast In Place Wingwalls - Skew Varies	
			are: William	E. Dupal, Jr., P.E. Date: June	16,2003
Company Na		ERING			City Of Addis
N- Not applica 9- Excellent C			4.	MILE THAN O. METER	
1	condition - no problem noted		W	Illian E. Dupal J. JAKE OF	
	tion - some minor problems		1	8 June 2003 10:	
	eondition minor deterioration of st				1
	on - minor deterioration of structure			WILLIAM E. DU	IPAL IG
	ion - deterioration significantly affe dition - deterioration seriously affe			***********	*****
	dition - bridge should be closed unt		ııy	69260) Saf
	dition - bridge closed but repairable			CENSE	0. 36%
	ition - bridge closed and beyond rep			SOMAL	C1/4G)/
E-tayatim	or for each atomost of such common	ant. The entire cho	uld anual or mean	ad the minimum rating listed to the left of	and a
element Co	ig for each element of each compon	ent. The rating sho lowest esting of an	uid equal of exce	ed the minimum rating listed to the left of omponent. Fully supportive comments are	to be made
	attachments for all ratings of 7 or		, cacinett of the c	competents of the support of the comments are	, to ou made
Min.	Deck (Item 58)	Rating	Min.	Superstructure (Item 59)	Rating
l Deck	-Rating		Main Me	mbers - Steel	
) Door	C. C			mbers - Concrete	
6 Wear	ring Surface Concr	ete 1) 7	1	mbers - Timber	
	s, Expansion, Open	N		mbers Connections	$\overline{\mathbf{N}}$
1	s, Expansion, Sealed	N	Floor Sys	tem Members	N
3	o, Other	N	,	tem Connections	N
1	nage System	8	•	y Members	\overline{N}
	s, Sidewalks & Parapets	8	Secondar	y Member Connections	N
6 Medi	an Barrier	N	Expansion	n Bearings	N
6 Railii			Fixed Bea		N
	ng Protective Coating	8		ective Coating	N
1	eation (curve markers)	<u> </u>	Other	paragram paragram, p	
Other	,				
			Comp	onent Rating	N
C			Comments:		<u></u>
Comments:	gitudinal and transverse cracks	in the concepts	Comments:		
wearing surf		s in the concrete			
1	ace. noderate impact damage to the	wast and of the	į		
north rail.	noderate impact damage to an	. west one of me			
Horturan.					
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BRIDGE SUMMARY SHEET

Bridge I.D.:	18-05	7-P001-00-003				1 × · · · · · · · · · · · · · · · · · ·	e ja
Facility:	Midw	ay Road				Wit.Liz.	***************************************
Feature X'ed:	Hutto	n Branch				12:	08283
Bridge Owner:	City C	Of Addison	**************************************				PENSEL STATE
Company Na	ıme:	BARNHART EN	GINEERING sig	mature: William &	Dun D.	نے :Date	Qub. 2003
·		escription and Rat	ing:	Inspection Rating	Inventory I		Operating Rating
Inspection Date			~~ ~~ a	1085	H	HS	H HS
Reinforced Co	oncrete I	Box Culvert (H S	15 Assumed)	6		15.0	20.0
			MANAGAMAN M				
dahaman and dahahahahahahahahahahahahahahahahahaha							WAAS
			Load Rating			15.0	20.0
		quired At This Tir	mendations (if app				
Inventory lbs	g Limits Gross Tandem	<u>Opera</u> Axle	indition (if application) ting	WEIG LIM AXLE TANOX	HT WEKSHT T LIMIT OR TANDEM EM AXLE LBS LBS	LIMIT LI GROSS GR LBSXLE OR TAN TANDEM AV LBS	CIGHT MT COSS LSS LOAD ZONED BRIDGE RIDGE
-	gn Code		Sign Code	OTHER RI23			247c WI2-5 5 6
			ting Not Required At 1			* <u></u>	
Previous Loa	ad Post	ing Recommend	dations: C	bserved Load I	Posting at Br	idge:	
R	12-2 T b	X	None _	R12-2	г ь	X No	one
***************************************	2-2 T c	***************************************	ibs Gross	R12-2		······································	s Gross
***************************************	2-4Tb 2-4Tc		ibs Tandem Axle	R12-4` R12-4`	***************************************	***************************************	s Tandem Axle s Axle or Tandem
	12-41 W		IDS PARE OF	Other			S Axie of Tandelli
Material Neede					٠, ٠		4
- R12-2Tb - R12-2Tc		COMPASS					
- R12-2Tb			þ	•	`		
- R12-4Tc			Advance Warning	Bridge	Bridge	Ad	Ivance Warning
- W12-5			(optional)	Approach	Approach	_	(optional)
- Posts - Hardware - Decals	e Sets	Sign Code Condition Code Maintenance]	
A. Visible & Legible B. Obscured by Ve C. Sign Needs Cler	getation	D. Improper Position E. Damaged Beyond F. Sign Down			Sign ition Sign sition Sign & Post	N. None P. Replac S. Replac	e Sign e Sign & Post



Madified (12-5-2000)			
District: 18 County: 057 Cont-Sec: P001 -	45	Structure: 001 Route: Lake Forest Drive	
		Box Culvert With Masonry Headwalls Ire: William E. Dupal Jr., P.E. Date: September 16, 2003	-
			-
Company Name BARNHART ENGINEERING	Main	ntenance Section: City of Addison	_
N- Not applicable 9- Excellent condition 8- Very good condition - no problems noted 7- Good condition - some minor problems 6- Satisfactory condition - minor deterioration of structural elements 5- Fair condition - minor deterioration of structural elements (extens 4- Poor condition - deterioration significantly affects structural capa 3- Serious condition - deterioration seriously affects structural capa 2- Critical condition - bridge should be closed until repaired 1- Failing condition - bridge closed but repairable 0- Failed condition - bridge closed and beyond repair	sive) acity city ld equal or e		
element. Component Ratings should equal the lowest rating of any e hereon or on attachments for all ratings of 7 or below.	eichient of ti	the component. Fully supportive continents are to be made	
Min. Deck (Item 58)	Rating	Min. Superstructure (Item 59) Ratio	113
		Outrous posses (treated by)	* fp
! Deck-Rating	N	0 Main Members - Steel N	
		0 Main Members - Concrete	
6 Wearing Surface Direct Traffic Culvert 1)	7	0 Main Members - Timber N 0 Main Member Connections	
6 Joints, Expansion, Open 6 Joints, Expansion, Sealed	N N		-
	- N	1 Floor System Members N 1 Floor System Connections N	
6 Drainage System	8	5 Secondary Members N	
6 Curbs, Sidewalks & Parapets	8	5 Secondary Members Connections N	****
6 Median Barrier	N	Superior Business	
6 Railings Pedestrian Rails	8	6 Fixed Bearings N	
7 Railing Protective Coating	8	6 Steel Protective Coating N	
7 Delineation (curve markers)	N	Other	
Other	N		
1		Component Rating	-
Comments:			
1) Minor surface spall and hairline map cracks in the surface o	f the	Comments:	
direct traffic culvert.			
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BRIDGE SUMMARY SHEET

18-057-P001-45-001 Bridge I.D.: MILLIAM E. DUPAL Lake Forest Drive Facility: Tributary of White Rock Creek Feature X'ed: City Of Addison Bridge Owner: Signature: William E.D Company Name: BARNHART ENGINEERING Date: Selected Component Description and Rating: Inspection Rating Inventory Rating Operating Rating Inspection Date: September 16, 2003 1085 HS HS Reinforced Concrete Box Culvert (H S 15 Assumed) 7 15.0 20.0 Channel 5 Load Rating 15.0 20.0 Comments and/or Upgrade Recommendations (if applicable): Moderate To Severe Erosion Of The Downstream Channel Has Undermined The Channel Apron 4 Feet, Causing It To Settle 2" And Crack In Two. Recommendation: Construct Gabions, Similar To Those Along The Banks, Along The End Of The Downstream Apron. Load Posting Limits for Present Condition (if applicable): WEIGHT WEIGHT Operating Inventory GROSS GROSS WEIGHT LIMIT lbs Gross Ibs Gross LES AXLE OR TANDEM AXLE OR TANDEM lbs Tandem Axle ibs Tandem Axle AXLE ibs Axle or Tandem lbs Axle or LBS LBS R12-27c R12-27b R13-17b RI2-4Te W12-5 Sign Code Sign Code 3 Posting Recommendation: Load Posting Not Required At This Time **Previous Load Posting Recommendations:** Observed Load Posting at Bridge: R12-2Tb R12-2Tb None R12-2Tc lbs Gross R12-2Tc lbs Gross R12-4Tb lbs Tandem Axle R12-4Tb lbs Tandem Axle R12-4Tc lbs Axle or R12-4Tc lbs Axle or Tandem Other Material Needed COMPASS R12-2Tb - R12-2Tc - R12-4Tb Advance Warning R12-4Tc Bridge Bridge Advance Warning (optional) W12-5 (optional) Approach Approach Sign Code Posts - Hardware Sets Condition Code Decals Maintenance A. Visible & Legible D. Improper Position G. Sian Missina K. Clean Sign N. None B. Obscured by Vegetation E. Damaged Beyond H. Sign & Post Missing L. Reposition Sign P. Replace Sign F, Sign Down J. Clear Vegelation S. Replace Sign & Post C. Sign Needs Cleaning M. Reposition Sign & Post



Modified (12-5-200	0}				
District:	18 County: 057 C	ont- P001-00	Structure:	003 Route: Midway Road	
	on: 3 Barrel 9.0' X 6.0' Rein			Cast In Place Wingwalls - Skew Varies	
Fcature Ci			re: William	E. Dupal, Jr., P.E. Date: June 16	6, 2003
Company N- Not app		NEEKING			ity Of Addison
,	it Condition		q.	Villame Dupal J. ME OF	5-1-2
8- Very go	od condition - no problem noted		•	The state of the s	
7- Good co	ndition - some minor problems			18 30× 2003	10
	ory condition minor deterioration of dition - minor deterioration of struc			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
	ution - minor deterioration of structure in the structure of structure in the structure of the structure in the structure of			WILLIAM E. DUI	PAL, JR.
	condition - deterioration seriously			₹ 2 : 89260	
	condition - bridge should be closed			00200	S. S. T
	ondition - bridge closed but repair			CENSE	CINE
0- Pailed co	ondition - bridge closed and beyone	i repair		EZONAL E	
Enter a m	ating for each element of each com	ponent. The rating show	ild equal or exe	eed the minimum rating listed to the left of ea	nch
			element of the	component. Fully supportive comments are t	o be made
	r on attachments for all ratings of		136	74. 30	
Min.	Deck (Item 58)	Rating	Min.	Superstructure (Item 59)	Rating
			}		·
i De	eck-Rating	N	1	embers - Steel	$-\frac{N}{N}$
				mbers - Concrete	<u> </u>
		ncrete 1) 7	1	embers - Timber embers Connections	$\frac{N}{N}$
	ints, Expansion, Open ints, Expansion, Sealed	N	1	stem Members	$\frac{1}{N}$
	ints, Other		,	stem Connections	
	ainage System	8	,	ry Members	T N
	irbs, Sidewalks & Parapets	8		ry Member Connections	N
	edian Barrier	N		on Bearings	N
6 Ra	ilings Pedestria	n Rails 2) 7	Fixed Be		N
	iling Protective Coating	8	1	tective Coating	N I
	elineation (eurve markers)	N	Other	sharrings, or under their course where sharrings are sharrings, or under the could be could be completely the course of the cour	
Ot	her	N		4.Th '	<u> </u>
			Comp	ponent Rating	N
Comment	E 4		Comments:		
	s. longitudinal and transverse cra	acks in the concrete	Comments.	•	ļ
wearing si			1		#
	to moderate impact damage to	the west end of the			£
north rail.					
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	······································		<u> </u>		oction Record (Page 1 of

District 18 County 057 Cont-Sec P001-00	Structure 003 Route Midway Road
Min. Substructure (Item 60) Rating	Min. Culverts (Item 62) Rating
0 Abutment Caps N 0 Above Ground N 0 Below Ground or Foundation N 5 Backwalls & Wingwalls N 0 Intermediate Supports Caps - Concrete N Caps - Steel N Caps - Timber N Above Ground - Concrete N Above Ground - Steel N Above Ground - Timber N Above Ground - Masonry N Below Ground or Foundation N 5 Collision Protection System N 6 Steel Protective Coating N Comments: CONTINUED FROM ITEM 62 3) Minor to moderate spall with exposed rebar at the end of the northwest wingwall. Minor vertical cracks at the north wingwall connections and in the headwalls.	0 Top Slabs 1) 7 0 Bottom Slab or Footings 8 0 Abutments & Intermediate Supports 2) 6 5 Headwalls & Wingwalls 3) 6 Other N Component Rating 6 Comments: CONTINUED UNDER ITEM 60 1) Minor spalls with exposed rebar in the top slab of the west barrel about drainage inlet. Minor longitudinal cracks with efflorescence and stalactites in the top slabs. 2) Minor spalls with exposed rebar about drill holes in the west abutment wall. Minor vertical with efflorescence in the barrel walls. Minor spalls in upstream end of the interior and abutment walls. Min. Approaches (Item 65) Rating 0 Embankments 1) 7 4 Embankment Retaining Walls N 5 Slope Protection 1) 7 5 Roadway Concrete 2) 7 6 Relief Joints N 6 Drainage 1) 7 6 Guardfence (0000) N 7 Delineation N 7 Sight Distance 8 Others
	Component Rating7
Min. Channel (Item 61) Rating 0 Channel Banks 8 0 Channel Bed 1) 7 5 Rip Rap, Toe Walls & Aprons 8 5 Dikes N 5 Jetties N Other N Component Rating 7 Comments: 1) Up to 15" of erosion along the upstream side of the culvert. See view through photo. Minor rock and sediment	Comments: 1) Minor embankment erosion along the southeast and southwest wingwalls. 2) Minor longitudinal and transverse cracks in the approach pavement. Min. Miscellaneous Rating 7 Signs N 7 Illumination N 7 Warning Devices N
accumulation in the barrels.	7 Utility Lines N Other N Comments:

2.1



BRIDGE SUMMARY SHEET

Bridge I.D.:	18-057-P00	1-00-003				January .	
Facility:	Midway Ro	ad	9000			(WILLIAM E.	F = 4*
Feature X'ed:	Hutton Brar	ıch				692	(8) (3)
Bridge Owner:	City Of Add	lison	V			OEN SION	98 A
Company Na	Action Branch City Of Addison Coperating Load Rating Inspection Rating Inventory Rating Inspection Rating Inventory Rating Inspection Rating Ins			5,000 5,2003			
Selected Com	ponent Descrip	tion and Ratir	ng:		Inventory Ra	/	/
*	300000000000000000000000000000000000000				<u>H</u>		HS
Reinforced Co	oncrete Box Ci	ulvert (H S 1	5 Assumed)	6	1	5.0	20.0
			l gad Rating		-	5.0	20.0
Commente s	and/or lingra	de Recomm		-ahle).		<u> </u>	<u> </u>
	* **			waters w ş s			
Mannenance	TYOUTEGONEG	771 11113 11111	10				

257							
Load Postin	a Limits for F	Present Cor	ndition (if applicable	<u>a):</u>			
	S		•	~ <i>,</i> ,			
IIIAGUTOIA		Operau	<u>my</u>	Weight	, ,		
b	s Gross	***************************************		LIMAT	LIKUT		
			····	TANDEM	AXLE TA	DEM AXTE	BRIDGE
				· · · · · · · · · · · · · · · · · · ·	. ,	······································	WIZ-S
SI	ign Code	***************************************	Sign Code				
Posting Rec	ommendatio	n: Load Posti	ing Not Required At Th	is Time			
Previous Lo	ad Posting R	ecommend	ations; Ob	served Load Po	sting at Brid	lge:	
R	12-2Tb	1 X	None	R12-2Tb	Х	None	
R	12-2Tc	1	bs Gross	R12-2Tc	********	lbs Gros	S
R	12-4Tb	1	bs Tandem Axle	R12-4Tb		lbs Tand	lem Axle
R	12-4Tc	J	bs Axle or		***************************************	lbs Axle	or T and em
				Other	***************************************		
Material Need	<u>led</u> ((1)			, •	•	
- R12-2Tb		COMPASS				<u> </u>	<u>-</u>
R12-2Tc		/ \		L /			-
- R12-4Tb	`	(T)	F	F			
-	;		Advance Warning	Bridge	Bridge	Advance	Warning
			(optional)	Approach	Approach	(opt	ion al)
	1	*					

Decals	Main	елапсе			L		
A. Visible & Legibl			G. Sign Missing	K, Clean Sig		N. None	
B. Obscured by VeC. Sign Needs Cle		maged Beyond n Down	H. Sign & Post Miss J. Clear Vegetation		n Sign on Sign & Post	P. Replace Sign S. Replace Sign	



ROADWAY VIEW - LOOKING NORTH



SIDE ELEVATION - LOOKING SOUTHWEST

NEG. 493

NEG.

495

Barnhart Engineering

DATE: 6/16/2003

COUNT 057

BRIDGE NUMBER:

P001-00-003

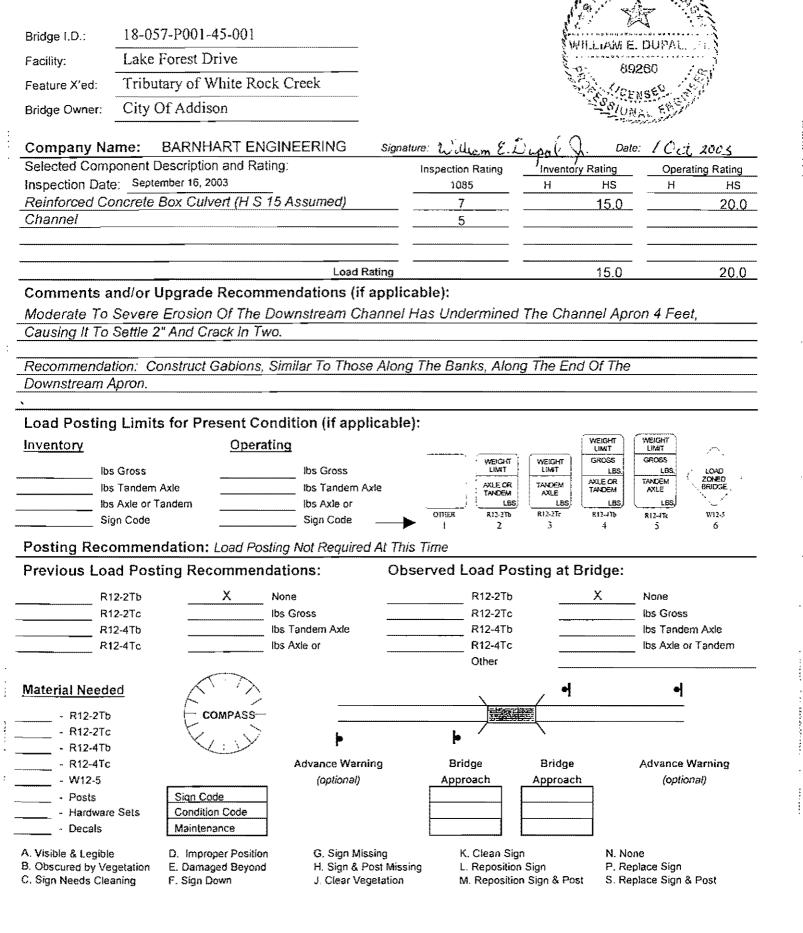


of Transpo		****	-				
Modified (12-5-20		-Sec: P001	- 45	Structure:	001 Route:	Lake Forest D	iriya
	18 County: 057 Cont 5 Barrels 8.0' X				t With Masonry Headwalls	LIGAN I UICSE D	HIVE
•						Date: Septemb	Lan 16 7
	ised: Tributary of White Ro		•		E. Dupal Jr., P.E.	Date: Septemb	JCF 10, 2
Company Na	me BARNHART ENGIN	EERING	Main	tenance Se	ction: City of Addison		
7- Good eor 6- Satisfacte 5- Fair cond 4- Poor con 3- Serious c 2- Critical c 1- Failing c 0- Failed co		tion of structural elem tructural elements (ex- thy affects structural e- ly affects structural e- sed until repaired nairable ond repair	atensive) capacity apacity hould equal or e			WILLIAM E. DL 89260 CENSE Correct Corr	*****
*	attachments for all ratings of 7			T			
Min.	Deck (Item 5	<u>8)</u>	Rating	Min	. Superstruc	ture (Item 59)	Ra
l Dee	ek-Rating		$-\Gamma_N$	0	Main Members - Steel		
1	-			0	Main Members - Concrete		
6 We	aring Surface I	Direct Traffic Culvert	1) 7	0	Main Members - Timber		
6 Join	nts, Expansion, Open		N	0	Main Member Connections		
I		· · · · · · · · · · · · · · · · · · ·	N	1	Floor System Members	- IVIII - IVII	
	nts, Other		N	1	Floor System Connections		
i	inage System			5	Secondary Members		
1	bs, Sidewalks & Parapets		8	5	Secondary Members Connec	tions	
	dian Barrier		N	6	Expansion Bearings		
	lings	Pedestrian Ra	nils 8	6	Fixed Bearings		
í	ling Protective Coating		_ <u> </u>	6	Steel Protective Coating		
i	ineation (curve markers)		- N		Other		
Oth	er		1 7		Commence Dating		j ''''
Comments:					Component Rating		\longrightarrow N
l, I) Minor su	rface spall and hairline map	eracks in the surface	ce of the	Commen	ds:		
direct traffic	e culvert.						
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18 County: 057 Cont-Sec: P001 -	·45	Structure:	001 Route:	Lake Forest	Drive	
Substructure (Item 60)	Rating	Min.	Culver	rts (Item 62)		Rating
Abutment Caps Above Ground Below Ground or Foundation Backwalls & Wingwalls	N N N	0 Bot 0 Ab 5 He	ttom Slab or Footings utments & Intermedic adwalls & Wingwalls	ate Supports	2)	7 8 7 7 N
Intermediate Supports Caps - Concrete Caps - Steel Caps - Timber Above Ground - Concrete Above Ground - Steel Above Ground - Timber Above Ground - Masonry Below Ground or Foundation Collision Protection System Steel Protecetive Coating	N N N N N N N	Comments: 1) Numerou stalactites a 2) Minor ve 3) Minor sp vertical crae	mponent Rating us patches in the to t the east end of the extical cracks in the toalls along the top ock in the southeast	e center barrel, barrel walls, of the northwest w wingwall connecti	ingwall. Min	7
nts:		Min.	Approache	es (Item 65)		Rating
		0 4 5 6 6 6 7 7			& Asphalt 1)	7 N 8 7 N 8 N N 7
			Component Rai	ting		7
Channel Bed Rip Rap, Toe Walls & Aprons Dikes Jetties Other Weir 3) Component Rating ats: or to moderate crosion of the downstream channel bar is have been placed along the bottom of the banks and stabilized the banks. erate to severe crosion of the downstream channel has ined the channel apron 4 feet, causing it to settle 2" an See view through photo.	have	of the south approach sla approach pa south appro. 2) Horizonta No speed re Min. 7 7 7 7 7 Comments:	approach slab. Mab. Widespread all evement. There is a ach pavement. all curves at both enduction required. Signs Illumination Warning Devices Utility Lines Other	inor to moderate s ligator cracking an a 1' drop off along ands of the culvert li	palls in the no d rutting in th the west side imits sight dis "Duck Xing"	orth e south of the
	Abutment Caps Above Ground Below Ground or Foundation Backwalls & Wingwalls Intermediate Supports Caps - Concrete Caps - Steel Caps - Timber Above Ground - Steel Above Ground - Masonry Below Ground - Masonry Below Ground or Foundation Collision Protection System Steel Protecetive Coating Component Rating Ints: Channel Banks Channel Bed 2) Rip Rap, Toe Walls & Aprons Dikes Jetties Other Weir 3) Component Rating Ints:	Abutment Caps N Above Ground N Below Ground of Foundation N Backwalls & Wingwalls N Intermediate Supports Caps - Concrete N Caps - Steel N Caps - Steel N Above Ground - Concrete N Above Ground - Steel N Above Ground - Steel N Above Ground - Masonry N Below Ground or Foundation N Collision Protection System N Steel Proteoetive Coating N Component Rating N Intermediate & Aprons Dikes N Intermediate & N Intermediate & N Intermediate N Inter	Substructure (Hem 60) Rating Min.	Substructure (Item 60) Rating Min. Culver	Substructure (Item 60) Rating Min. Calverts (Item 62)	Substructure (Item 60) Rating Min. Culverts (Item 62)



BRIDGE SUMMARY SHEET

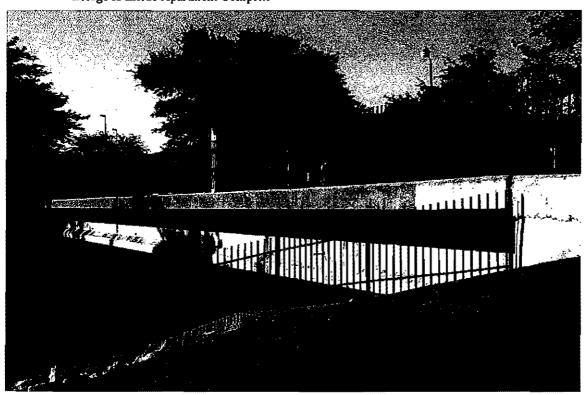




NEG. 170

ROADWAY VIEW - LOOKING NORTH

Note: Speed Bump In Center Of Bridge
Bridge Is Inside Apartment Complex

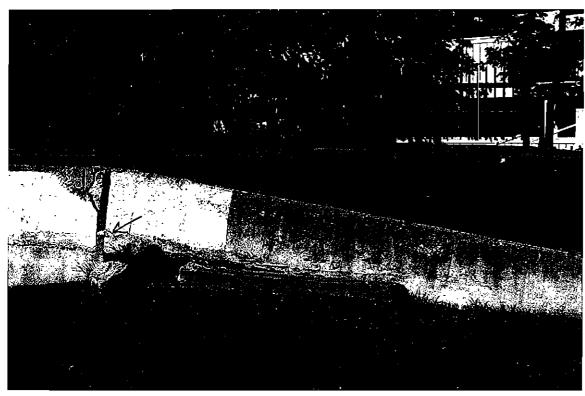


NEG. 174

Barnhart Engineering

SIDE ELEVATION - LOOKING NORTHEAST

DATE: 6/11/2003 COUNTY: 57 BRIDGE NUMBER: P002-00-001



NEG. 173

Barnhart Engineering

SOUTH APPROACH SLAB - LOOKING NORTHEAST

Note: Moderate Settlement Of South Approach Slab

Moderate Transverse Cracks Through Slab, Curb, And Sidewalk

DATE: 6/11/2003 COUNTY: 57 BRIDGE NUMBER: P002-00-001



Modifie	d (12-5-2000)						
District:		P002-		Structure:	001Route:		orth Drive
Descript	ion: 4 Barrels 8.0' X 4.0' R	einforced	Concrete B	ox Culver	t With Cast In Place Concret	e Wingwalls	
Feature (Crossed: White Rock Creek Tributary	Inspecto	or's Signati	ire: Josep	h Garner, P.E.	Date:	July 7, 2003
Compan	y Name BARNHART ENGINEERING		Maint	enance Se	ction: City of Addison		
					AND THE STREET		
	ot applicable cellent condition						
	ery good condition - no problems noted						
7- Go	ood condition - some minor problems			20 0 80 E.			
	tisfactory condition - minor deterioration of structu		(limited)	Angelone MSS	one on the state of the state o		
	ir condition - minor deterioration of structural elem or condition - deterioration significantly affects stru		ive) ş	a jose	PRI SAKURE S		
3- Se	rious condition - deterioration seriously affects stru	ctural capac	ity	- onemnte	annarra ar a a a		
2- Cr	itical condition - bridge should be closed until repair	ired	•	3 -	BEST B	10	
	iling condition - bridge closed bur repairable			in, c.	Assessment .	diam	10
O+ ta	iled condition - bridge closed and beyond repair			e .		ing Company on which	*
Cutan	nation for each alamant of each community. The	a antina afaa	ملميسم أملي	n avanad ib		last at analy	
	a rating for each element of each component. The nt. Component Ratings should equal the lowest r						ada
	n or on attachments for all ratings of 7 or below.	atting of any	y Clement o	t me comb	ment. Tuny supportive commit	ans are to be in	Auc
Min.	Deck (Item 58)	***************************************	Rating	Min.	Superstruct	ure (Item 59	Rating
771111.	LACTE (IRAM CO)		nuem <u>s</u>	******		(
1	Deck-Rating		N	0	Main Members - Steel		N
•			1.4	0	Main Members - Concrete		N
6	Wearing Surface	Concrete I)	7	0	Main Members - Timber		
6	Joints, Expansion, Open		N	0	Main Member Connections		N
6	Joints, Expansion, Sealed		N	1	Floor System Members		N
6	Joints, Other		N	1	Floor System Connections		N
6	Drainage System		8	5	Secondary Members		N
6	Curbs, Sidewalks & Parapets		8	5	Secondary Members Connect	ions	N
6	Median Barrier		N	6	Expansion Bearings		N
6	Railings Non-	standard 2)	8	6	Fixed Bearings		N
7	Railing Protective Coating		8	6	Steel Protective Coating		N
7	Delineation (eurve markers)		8		Other		N
	Other		8				**************************************
					Component Rating		
Comm	ents:			Comm	ents:		
I) Mi	nor diagonal cracks in concrete pavement.						
2) No	n-standard rails consist of brick walls topped	with steel l	oars.				

				Barrier de la chies			

District; _	18 Cour	ity: _	057	Cont-Sec:	P002-20	Struc	ture:	00	IRoute:	Oaks Nor	h Drive	
Min.	:	Subst	ructure	(Item 60)	Rating		Min.		Culve	erts (Item 62)]	Rating
0	Abutment Ca	DS			N	1	Û	Top Sla	a b			1) 7
	Above Groun				N		0		Slab or Footin			8
0	Below Groun	d or F	oundat	on	N	1	0		ents & Intermed			2) 7
5	Backwalls &	Wing	walls		N	1	5		alls & Wingwal			3) 7
	Intermediate	_						Other	_			N
	Caps	- Con	erete		N]						
	Caps	- Stee	1		N]		Compo	nent Rating			7
	Caps	- Tim	ber		Ŋ							
	Abov	e Gro	und - C	oncrete	N		Comn	ients:				
	Abov	e Gro	und - St	eel	N		1) Mi	nor spa	Il with exposed	d rebar in top sla	b of south int	erior
			und - Ti		N	4 i	ŧ	at east				
				asonry	N					utment wall abou		r outlets.
				oundation	N					western wingwa	lls.	
	Collision Pro		-	n	N		Mino	r spalls	in western hea	adwall.		
6	Steel Protecet	tive C	oating		N	J						
						•						
•	Component R	lating			N							
					**	j j	<u></u>					
Comm	nents:						Min.	L	Approach	ies (Item 65)		Rating
							0		Imbankments		***************************************	. 8
							4		Embankment Re			N
							5		Slope Protection		Concrete 1	8
							5 6		loadway Lelief Joints		Concrete	l) 7 N
							6			***************************************	••••••	8
							6		Orainage Juardfence		·····	N N
							7		Juarovence Delineation	·····		1 <u>N</u>
							7		*****			8
							,	-	Sight Distance Other	*****		† ° N
								`	Jerer			1 14
									Component R	ating	***************************************	7
Min.		Cha	ınnel (I	tem 61)	Rating		Comm	ients:				
					<u> </u>	,	1) Mi	nor dia	gonal cracks in	concrete paven	ient.	
	Channel Bank	cs _			1) 7							
	Channel Bed				7							
	Rip Rap, Toe			***************************************	N N							
5 I	Dikes				N							
5	Jetties				N	4 5						
•]	Min.	L	Misce	itaneous		Rating
	_					,	_					
(Component R	ating			 7		7		igns	***************************************		N N
]	7		Ilumination		***************************************	N
Comm					_		7		Varning Device			N
	-	2' of	erosior	along downstrea	am toe of		7					1) 8
culver				_	_			()ther			N N
				face of culvert.	See side	l						
elevat	tion and view	v thro	ugh of	otos.		1	Comm		- س			
									ne runs through			
							Two I	" cond	uits run throug	th south barrel.		

		В	RIDGE SUM	(MARY	SHEE	T.			
Bridge I.D.:	18-057-P	002-20-001						, 000 to 13.10.) &
Facility:	Oaks Nor	th Drive	400000000000000000000000000000000000000			7 17 18 18 18 18 18 18 18 18 18 18 18 18 18	esoconcunous Se Societa	PW Tecoporusia Transpor	To the second
Feature X'ed:	White Ro	ock Creek Tri	bulary			3	Agralanner.	isterijist o tenugaherar r	
Bridge Owner:	City Of A						- 35 51	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	문 :
Dijuge Owijer.	- City OI I				and the same of		(1)(1)(4)(4)(4)(4)(4)(4)(4)(4)(4)(4)(4)(4)(4)		
Company Na	ıme: BA	RNHART EN	GINEERING s	Signature: - J	oud le	and the same	Dat	e 4/m	1115/ Zero
Selected Comp		•	ting:	Inspect	tion Rating	Inventory	Rating	Ope	rating Rating
Inspection Date				1	085	<u></u> H	HS	н	HS
Reinforced Co H S 15 Assum		Culvert (No F	łans;	*********	7	***************************************	15.0	<u></u>	20.0
n o 10 Assum	1 0 0)	<u> </u>						· 	 -
			Load Ratin				15,0		20.0
Commonte a	nd/or Una	rada Pacam	mendations (if ap			······································	10.0		20.0
Maintenance									
Load Posting	g Limits fo	r Present Co	ondition (if applica	ıble):			WEIGHT	(WEIGHT)	
	_	Opere			WEIGHT	WEIGHT	LIMIT GROSS	GROSS	A PORT
***************************************	Gross		lbs Gross	wood and the second	LIMT	LIMIT	AXLE OR	TANDEM	ZONED // BRIDGE
	Tandem Axie Axle or Tande		lbs Tandem Axle lbs Axle or	***************************************	TANDEM	AXLE	TANDEM	AXLE LBS.	BRIDGE
	gn Code	***************************************	Sign Code	OTHER	RII-ITE 2	R12-27c	R12-17h	RI2-ITc S	W12-5
Postina Reco	ommendat	ion: Load Pos	sting Not Required At	This Time	-	-	•	-	v
Previous Loa			······································	Observed	Load Po	sting at B	ridae:		
	2-2Tb	Х	None		R12-2Tb	Ū	X	None	
***************************************	2-2Tc	***************************************	lbs Gross		R12-2Tc			lbs Gros	S
R1	2-4Tb		lbs Tandem Axle		R12-4Tb	*****	, ,	lbs Tand	em Axle
R1	2-4Tc		lbs Axle or		R12-4Tc			_ lbs Axle	or Tandem
					Other	***************************************		***************************************	
<u>Material Neede</u>	<u>ed</u>	R'''A				/ +		•	
- R12-2Tb		COMPASS							•
- R12-2Tc		$\langle \langle \langle \langle \rangle \rangle \rangle$	þ		b /	\			
- R12-4Tb - R12-4Tc			Advance Warning	F	Bridge	Bridge		Advanca	Warning
- K12-416 - W12-5			(optional)		proach	Approach			onal)
- Posts	s	ign Code	10,500,000	المستخطئة	1			Colbert	
- Hardware		andition Code							
- Decals	M	aintenance							
A. Visible & Legible B. Obscured by Ve C. Sign Needs Clea	getation E.	Improper Position Damaged Beyond Sign Down		Missing	K. Clean Sig L. Reposition M. Reposition			one eplace Sign eplace Sign	



P.O. BOX 3067 • DALLAS, TEXAS 75221-3067 • (214) 320-6100 October 28, 1996

OCT 3 I 1996

CITY MANAGER

Mr. Ron Whitehead City Manager City of Addison 5300 Belt Line Road P.O. Box 144 Addison, Tx. 75001-0144

RE: FAU and Off-System BRINSAP Inspection Folders

Dear Whitehead:

An inspection and analysis of FAU and Off-System public bridges, consistent with Federal Regulations and the National Bridge Inspection Standards, was recently completed by this department. The bridge inspection was conducted and the recommendations were prepared by private consultants. Since these bridges are within your jurisdiction and are subject to your control, supervision and maintenance, we are forwarding these folders containing the pertinent findings. This information can be used in carrying out your responsibilities for bridge maintenance, repair, closures, and weight limit posting.

A map showing the location of the bridges along with the following lists (if applicable) are also enclosed.

- List 1. Structures showing the condition rating for Deck, Superstructure, Substructure, Channel, Approach and Culverts.
- List 2. Recommended for load posting.
- List 3. Bridges with condition rating of 4 or less.
- List 4. Bridges with HS10 rating or less.
- List 5. Bridges with H10 rating or less with Recommendations.

Structures with a condition rating of 4 or lower or with an operating rating of HS10 (or H10) or lower need prompt attention. If you have such structures in your jurisdiction, you should take necessary steps to improve the condition rating of the structure.

Page 2 Mr. Whitehead City of Addison

Under federal law, if a closure is recommended, the bridge must be strengthened or closed with a positive barrier at each end of the structure, also, all bridges incapable of safely carrying the state legal load must be posted by erecting the appropriate signs. To enforce this requirement, as per the Code of Federal Regulations, The Federal Highway Administration can withhold federal highway funds from those jurisdictions that do not comply with these regulations.

The FHWA is stressing the importance of follow-up procedures to monitor bridges with critical findings. In order to comply, we request a record of corrective actions taken, if any, on each bridge.

New signs, posts and hardware for those bridges that now require posting, as well as those that now require a change in existing load posting signs to the new requirements, will be sent to the TxDOT Maintenance yard in your County. They will contact you when this sign material is ready for you to pick up.

We have spent considerable time and effort in sorting the folders and compiling the list. However, we may have included folders outside your jurisdiction by mistake. Please cross check the list of bridges within your jurisdiction with the folders forwarded to you to ensure you received all the bridge folders. If you received folders outside your jurisdiction, please return them to us. Please bring to our attention any inconsistencies between the information provided in the inspection folders and the lists of bridges.

If you have any questions, comments, suggestions or need additional information, please contact Mr. Ibrahim Musa, P.E. in the District Bridge Section, at (214)320-4423.

Sincerely,

Charles R. Tucker, P.E. Director of Transportation Planning and Development

Charle R. Tucken

BRINSAP OFF-SYSTEM BRIDGES BY CITIES

---- COUNTY=057 OWNER=ADDISON ---

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ひ思られ	~Z
TODMEHOM	0.1 MI S OF BROOKHAVEN CR 0.1 MI S OF BELT LINE RD
401 KHEUM	FARMBROOK DRIVE OAKS NORTH
뮤컬듀요요인터	FARMERS BRANCH CREEK FARMERS BRANCH CREEK
REW PESSO	ᆔᆏ
wer IZO	001 001
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KHZGOU	057 057
ν Φ Φ	227 228

---- COUNTY=057 CITY=ADDISON --

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ଉପଦ ଉନ୍ସ	ZZG
MOMU	ZZC
но раенох	0.1 MI S OF BELT LINE RD 0.2 MI N KELLER SP. RD. 0.25 MI W OF SH 289
401 KARUA	MARSH LANE MIDWAY ROAD BELTLINE ROAD
ᆸᅜᅂᅅᅜᆕ	RAWHIDE CREEK HUTON BRANCH WHITE ROCK CREEK
SHE IZO	011 003 026
OZFJ MMO	804118 804218 805018
אישאט	ADDISON ADDISON ADDISON
CODZEX	057 057 057
· O m to	75 77