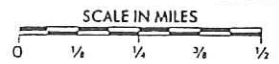
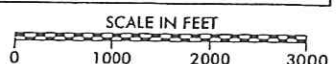


CONTINUED ON MAP 13

CONTINUED ON MAP 15



CONTINUED ON MAP 24



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BRIDGE SUMMARY SHEET

Bridge I.D.: 18-057-P001-96-001
 Facility: FARMBROOK COURT
 Feature X'ed: FARMERS BRANCH
 Bridge Owner: 04



Company Name: SEK Engineering, Firm No. 10411


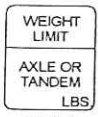

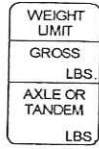
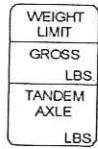

Signature: *[Handwritten Signature]* Date: 8/26/09

Selected Component Description and Rating:	Inspection Rating		Inventory Rating		Operating Rating	
	1	2	H	HS	H	HS
Concrete Box Culvert (Assumed load rating)	1085	7	H	HS	H	HS

Comments and/or Upgrade Recommendations (if applicable):

Bridge closed due to construction in the campus.

Load Posting Limits for Present Condition (if applicable):

<u>Inventory</u>	<u>Operating</u>						
_____ lbs Gross	_____ lbs Gross	OTHER	R12-2Tb	R12-2Tc	R12-4Tb	R12-4Tc	W12-5
_____ lbs Tandem Axle	_____ lbs Tandem Axle						
_____ lbs Axle or Tandem	_____ lbs Axle or Tandem						
_____ Sign Code	_____ Sign Code						

Posting Recommendation: Load Posting not required.

Previous Load Posting Recommendations:

Observed Load Posting at Bridge:

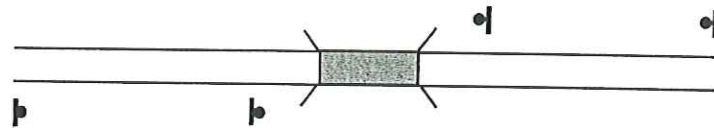
_____ R12-2Tb	<u> X </u> None	_____ R12-2Tb	<u> X </u> None
_____ R12-2Tc	_____ lbs Gross	_____ R12-2Tc	_____ lbs Gross
_____ R12-4Tb	_____ lbs Tandem Axle	_____ R12-4Tb	_____ lbs Tandem Axle
_____ R12-4Tc	_____ lbs Axle or Tandem	_____ R12-4Tc	_____ lbs Axle or Tandem
		Other (desc): _____	

Material Needed

- _____ - R12-2Tb
- _____ - R12-2Tc
- _____ - R12-4Tb
- _____ - R12-4Tc
- _____ - W12-5
- _____ - Posts
- _____ - Hardware Sets
- _____ - Decals



Sign Code
Condition Rating
Maintenance



Advance Warning (optional)

Bridge Approach

Bridge Approach

Advance Warning (optional)

N
N
N

N
N
N

- | | | | | |
|---------------------------|--------------------------|------------------------|---------------------------|------------------------|
| Visible & Legible | D. Improper Position | G. Sign Missing | K. Clean Sign | N. None |
| B. Obscured by Vegetation | E. Damaged Beyond Repair | H. Sign & Post Missing | L. Reposition Sign | P. Replace Sign |
| C. Sign Needs Cleaning | F. Sign Down | J. Clear Vegetation | M. Reposition Sign & Post | S. Replace Sign & Post |



Bridge Inspection Record

District: 18 County: 057 Cont-Sec: P001-96 Structure: 001 Route: FARMBROOK COURT

Description: Five - Barrel 10'W x 10'H Concrete Box Culvert

Feature Crossed: FARMERS BRANCH Inspector's Signature: Sam Khazzoum Date: 12-Jul-09

Company Name: SEK Engineering, Firm No. 10411

- 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 (limited)
- 5 - Fair condition - minor deterioration of structural elements (extensive)
- 4 - Poor condition - deterioration significantly affects structural capacity
- 3 - Serious condition - deterioration seriously affects structural capacity
- 2 - Critical condition - bridge should be closed until repaired
- 1 - Failing condition - bridge closed but repairable
- 0 - Failed condition - bridge closed and beyond repair



Enter a rating for each element of each component. The rating should equal or exceed the minimum rating listed to the left of each element. Component Ratings should equal the lowest rating of any element of the component. Fully supportive comments are to be made hereon or on attachments for all ratings of 7 or below.

Min.	Deck (Item 58)	Rating
1	Deck - Rating _____	N
6	Wearing Surface _____	7
6	Joints, expansion, Open _____	N
6	Joints, expansion, Sealed _____	N
6	Joints, Other _____	N
6	Drainage System _____	8
6	Curbs, Sidewalks & Parapets _____	8
6	Median Barrier _____	N
6	Railings _____	7
7	Railings Protective Coating _____	7
7	Delineations (curve markers) _____	N
	Other _____	N

Min.	Superstructure (Item 59)	Rating
0	Main Members - Steel _____	N
0	Main Members - Concrete _____	N
0	Main Members - Timber _____	N
0	Main Members - Connections _____	N
1	Floor System Members _____	N
1	Floor System Connections _____	N
5	Secondary Members _____	N
5	Secondary Members Connections _____	N
6	Expansion Bearings _____	N
6	Fixed Bearings _____	N
6	Steel Protective Coating _____	N
	Other _____	N
	Component Rating _____	N

Comments:

1. Roadway covered with gravel due to construction.
2. Minor impact damage to the steel rail at the northeast side.
Minor rust and paint failure on the steel railing.

Comments:

Min.	Substructure (Item 60)	Rating
	Abutment Caps _____	N
0	Above Ground _____	N
0	Below Ground or Foundation _____	N
5	Backwalls & Wingwalls _____	N
0	Intermediates 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
	Component Rating _____	N

Comments:

Min.	Culverts (Item 62)	Rating
0	Top slabs _____	7 1
0	Bottom Slab Or Footings _____	8
0	Abutments & Intermediate Supports _____	7 2
5	Headwalls & Wingwalls _____	7 2
	Other _____	N
	Component Rating _____	7

Comments:

1. Minor cracks and honeycombing on bottom of top slab.
2. There are moderate cracks and spalls on abutment walls and wingwalls some spalls with exposed rebar at the corners.

Min.	Approaches (Item 65)	Rating
0	Embankments _____	8
4	Embankment retaining Walls _____	N
5	Slope Protection _____	8
5	Roadway _____	7 1
6	Relief Joints _____	N
6	Drainage _____	8
6	Guardfence _____	N
7	Delineation _____	N
7	Sight Distance _____	8
	Other _____	N
	Component Rating _____	7

Comments:

1. Approach roadways covered with gravel due to construction.

Min.	Channel (Item 61)	Rating
0	Channel Banks _____	6 1
0	Channel Bed _____	6 2
5	Rip Rap, Toe Walls & Aprons _____	N
5	Dikes _____	N
5	Jetties _____	N
	Other _____	N
	Component Rating _____	6

Comments:

1. Moderate erosion on upstream and downstream Channel and upstream channel banks
2. Southeast barrel has moderate silt build-up, up to 4.5' and very minor in other barrels. Minor drift build-up on the upstream side.

Min.	Miscellaneous	Rating
7	Signs _____	N
7	Illumination _____	N
7	Warning Devices _____	N
7	Utility Lines _____	N
	Other _____	N

Comments:



BRIDGE ROADWAY LOOKING EAST



BRIDGE ELEVATION LOOKING SOUTHEAST

District No.	County No.	Control-Section	Structure No.	Date
18	057	P001-96	001	07/12/2009

SEK Engineering, Houston, Texas

Dallas District



UPSTREAM VIEW FROM BRIDGE LOOKING NORTHEAST



DOWNSTREAM VIEW FROM BRIDGE LOOKING SOUTHWEST

District No.	County No.	Control-Section	Structure No.	Date
18	057	P001-96	001	07/12/2009

SEK Engineering, Houston, Texas

Dallas District

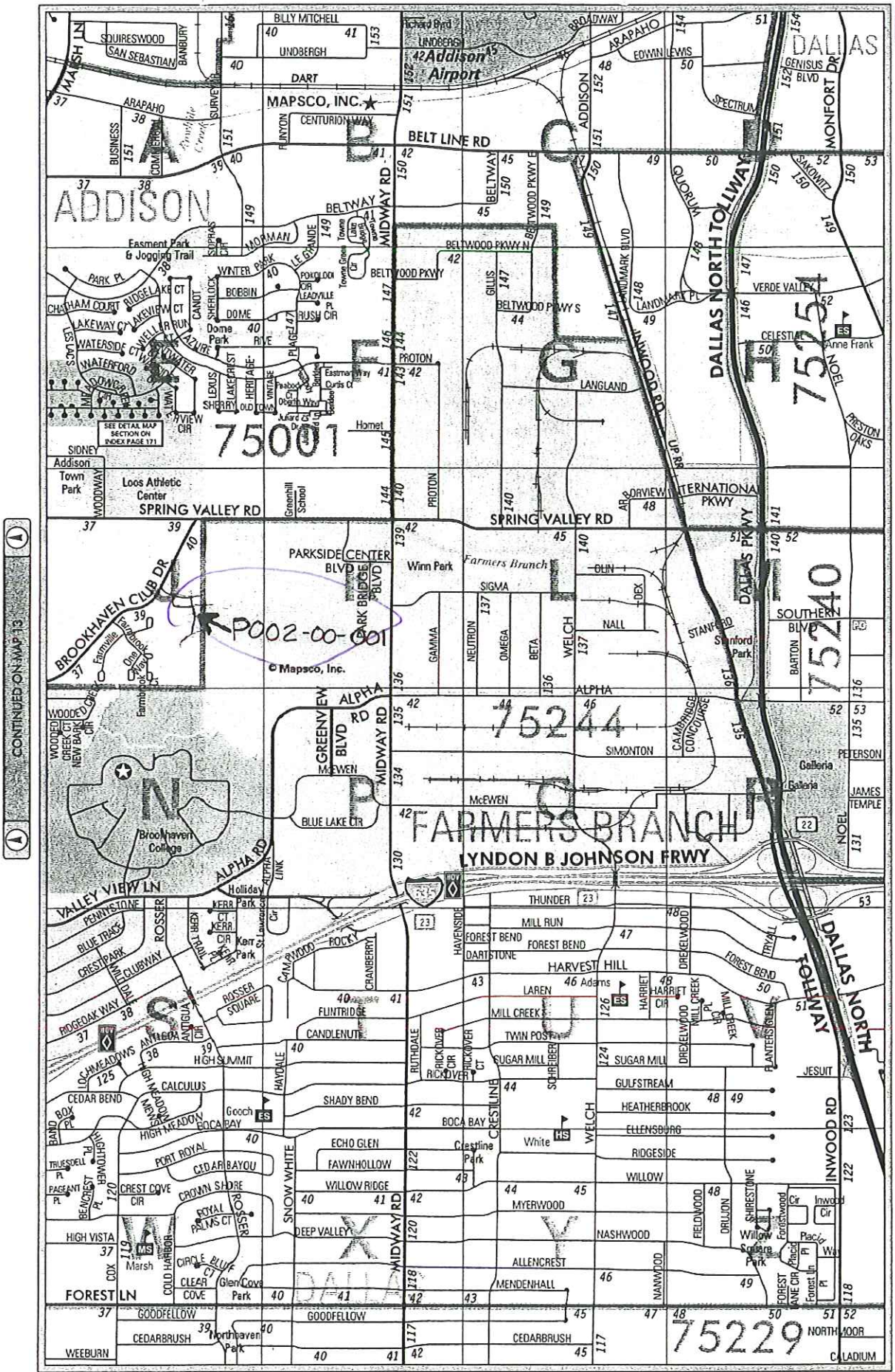


STREAM VIEW LOOKING NORTHEAST

District No.	County No.	Control-Section	Structure No.	Date
18	057	P001-96	001	07/12/2009

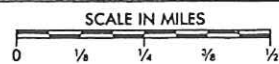
SEK Engineering, Houston, Texas

Dallas District



CONTINUED ON MAP 13

CONTINUED ON MAP 15

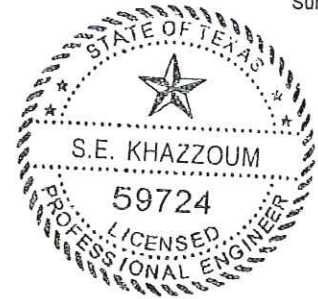


SCALE: 1 inch = 2000 feet

BOOK PAGE 1023

BRIDGE SUMMARY SHEET

Bridge I.D.: 18-057-P002-00-001
 Facility: BROOKHAVEN COMM DR
 Feature X'ed: FARMERS BRANCH
 Bridge Owner: 04



Company Name: SEK Engineering, Firm No. 10411

Signature: *[Handwritten Signature]*

Date: 8/25/09

Selected Component Description and Rating:	Inspection Rating		Inventory Rating		Operating Rating	
	1085	H	HS	H	HS	
Prestressed concrete I-beams (assumed HS15 Design)	5		15		20	

Comments and/or Upgrade Recommendations (if applicable):

None

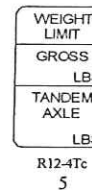
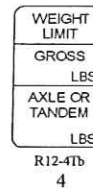
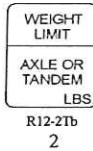
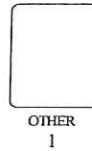
BRIDGE CLOSED DUE TO CONSTRUCTION IN THE AREA.

Load Posting Limits for Present Condition (if applicable):

Inventory

Operating

_____ lbs Gross	_____ lbs Gross
_____ lbs Tandem Axle	_____ lbs Tandem Axle
_____ lbs Axle or Tandem	_____ lbs Axle or Tandem
_____ Sign Code	_____ Sign Code



Posting Recommendation: Load Posting not required.

Previous Load Posting Recommendations:

Observed Load Posting at Bridge:

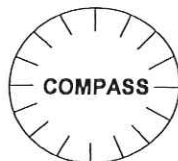
_____ R12-2Tb	<u> X </u>	None
_____ R12-2Tc	_____	lbs Gross
_____ R12-4Tb	_____	lbs Tandem Axle
_____ R12-4Tc	_____	lbs Axle or Tandem

_____ R12-2Tb	<u> X </u>	None
_____ R12-2Tc	_____	lbs Gross
_____ R12-4Tb	_____	lbs Tandem Axle
_____ R12-4Tc	_____	lbs Axle or Tandem

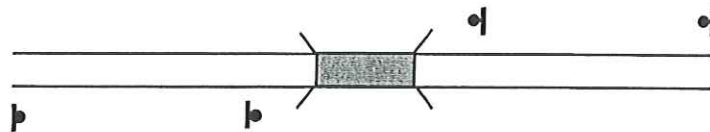
Other (desc): _____

Material Needed

- _____ - R12-2Tb
- _____ - R12-2Tc
- _____ - R12-4Tb
- _____ - R12-4Tc
- _____ - W12-5
- _____ - Posts
- _____ - Hardware Sets
- _____ - Decals



Sign Code
Condition Rating
Maintenance



Advance Warning (optional)

Bridge Approach

N
N
N

Bridge Approach

N
N
N

Advance Warning (optional)

- | | | | | |
|---------------------------|--------------------------|------------------------|---------------------------|------------------------|
| Visible & Legible | D. Improper Position | G. Sign Missing | K. Clean Sign | N. None |
| B. Obscured by Vegetation | E. Damaged Beyond Repair | H. Sign & Post Missing | L. Reposition Sign | P. Replace Sign |
| C. Sign Needs Cleaning | F. Sign Down | J. Clear Vegetation | M. Reposition Sign & Post | S. Replace Sign & Post |

Bridge Inspection Record

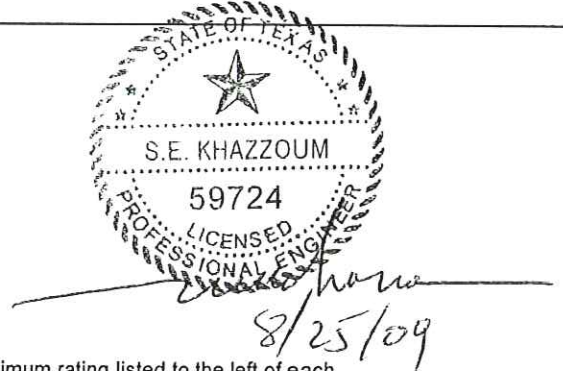
District: 18 County: 057 Cont-Sec: P002-00 Structure: 001 Route: BROOKHAVEN COMM DR

Description: Single Span Prestressed concrete I-Beam Bridge

Feature Crossed: FARMERS BRANCH Inspector's Signature: Sam Khazzoum Date: 12-Jul-09

Company Name: SEK Engineering, Firm No. 10411

- 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 (limited)
- 5 - Fair condition - minor deterioration of structural elements (extensive)
- 4 - Poor condition - deterioration significantly affects structural capacity
- 3 - Serious condition - deterioration seriously affects structural capacity
- 2 - Critical condition - bridge should be closed until repaired
- 1 - Failing condition - bridge closed but repairable
- 0 - Failed condition - bridge closed and beyond repair



Enter a rating for each element of each component. The rating should equal or exceed the minimum rating listed to the left of each element. Component Ratings should equal the lowest rating of any element of the component. Fully supportive comments are to be made hereon or on attachments for all ratings of 7 or below.

Min.	Deck (Item 58)	Rating	
1	Deck - Rating _____	7	1
6	Wearing Surface _____	N	
6	Joints, expansion, Open _____	N	
6	Joints, expansion, Sealed _____	7	2
6	Joints, Other _____	N	
6	Drainage System _____	8	
6	Curbs, Sidewalks & Parapets _____	8	
6	Median Barrier _____	N	
6	Railings _____	7	3
7	Railings Protective Coating _____	7	3
7	Delineations (curve markers) _____	N	
	Other _____	N	

Comments:

1. Minor wear and cracks on the deck surface. Along the east overhang there are several minor spalls some with exposed rebar.
2. Minor leaks and torn areas on joint seals.
3. Minor impact damage and isolated paint failure on steel railing. A few rail post are heavily rusted and have rust thru spots at the base. (See Photo)

Min.	Superstructure (Item 59)	Rating	
0	Main Members - Steel _____	N	
0	Main Members - Concrete _____	5	1
0	Main Members - Timber _____	N	
0	Main Members - Connections _____	N	
1	Floor System Members _____	N	
1	Floor System Connections _____	N	
5	Secondary Members _____	6	2
5	Secondary Members Connections _____	6	2
6	Expansion Bearings _____	7	3
6	Fixed Bearings _____	7	3
6	Steel Protective Coating _____	N	
	Other _____	N	
	Component Rating _____	5	

Comments:

1. North end of east beam has repaired areas and is shorter than other beams and is shapely skewed. Repaired area has minor cracks and delaminations. Also, mid-span has minor flexural cracks and beam sags slightly. Other beams have minor end cracks and spalls on top flange with one beam having minor spall on bottom flange at south abutment.
2. Concrete diaphragms have moderate spalls. Several rods are lose and some are missing nuts.
3. The bearing pad at the north abutment under the east beam is torn and deteriorated. Also debris build-up on the abutment caps (See Photo)

Min.	Substructure (Item 60)	Rating
0	Abutment Caps	8
0	Above Ground	N
0	Below Ground or Foundation	8
5	Backwalls & Wingwalls	7
0	Intermediates 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

Component Rating 7

Comments:

1. There is minor honeycombing on the abutment backwalls.

Min.	Culverts (Item 62)	Rating
0	Top slabs	N
0	Bottom Slab Or Footings	N
0	Abutments & Intermediate Supports	N
5	Headwalls & Wingwalls	N
	Other	N

Component Rating N

Comments:

Min.	Approaches (Item 65)	Rating
0	Embankments	6
4	Embankment retaining Walls	N
5	Slope Protection	8
5	Roadway	6
6	Relief Joints	7
6	Drainage	8
6	Guardfence	8
7	Delineation	N
7	Sight Distance	N
	Other	N

Component Rating 6

Comments:

1. Approach slabs have moderate cracks and scaling. There is minor undermining behind the abutment walls.
2. Joint seals are partially deteriorated.

Min.	Channel (Item 61)	Rating
0	Channel Banks	7
0	Channel Bed	8
5	Rip Rap, Toe Walls & Aprons	7
5	Dikes	N
5	Jetties	N
	Other	N

Component Rating 7

Comments:

1. Minor scour around the riprap edges at the downstream side and under the south end of the bridge.
2. Minor cracks in the riprap channel lining.

Min.	Miscellaneous	Rating
7	Signs	N
7	Illumination	N
7	Warning Devices	N
7	Utility Lines	N
	Other	N

Comments:



BRIDGE ROADWAY LOOKING NORTH



BRIDGE ELEVATION LOOKING EAST

District No.	County No.	Control-Section	Structure No.	Date
18	057	P002-00	001	07/12/2009

SEK Engineering, Houston, Texas

Dallas District



UPSTREAM VIEW FROM BRIDGE LOOKING EAST



DOWNSTREAM VIEW FROM BRIDGE LOOKING WEST

District No.	County No.	Control-Section	Structure No.	Date
18	057	P002-00	001	07/12/2009
SEK Engineering, Houston, Texas			Dallas District	



SUPERSTRUCTURE LOOKING SOUTH



STREAM VIEW LOOKING EAST

District No.	County No.	Control-Section	Structure No.	Date
18	057	P002-00	001	07/12/2009

SEK Engineering, Houston, Texas

Dallas District



DEBRIS BUILD-UP AROUND EAST BEAM OVER NORTH ABUTMENT LOOKING
NORTHEAST



CORRODED BOTTOM OF RAIL POST ON WEST SIDE OF BRIDGE LOOKING EAST

District No.	County No.	Control-Section	Structure No.	Date
18	057	P002-00	001	07/12/2009

SEK Engineering, Houston, Texas

Dallas District