

Inspector's initials: gkb.
 Date: 10-9-98

BRIDGE SUMMARY SHEET

District: 18 County: 057 Bridge # P00200-001 Inspection Date: 10-9-98
 Location: Farmbrook Dr. Over Farms Branch Creek
 Description: 1-Span Pres. Conc. Bm. Bridge

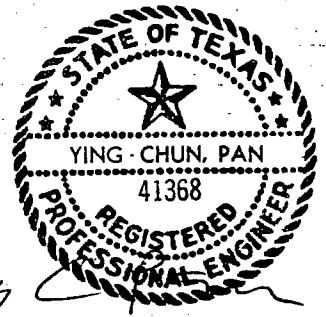
SUMMARY OF INSPECTION / ANALYSIS

Selected Component Description	Inspection Rating (1085)	Inventory Rating (HS Truck)	Operating Rating (HS Truck)
<u>Superstructure</u>	<u>6</u>	<u>HS 15</u>	<u>HS 20</u>
<u>Substructure</u>	<u>8</u>		

RECOMMENDATIONS

We recommend the following actions to be taken:

- No action or Load Posting required
- (Retain, Repair, Remove) current Load Posting
- Load Post according to the recommendations listed below
- Perform additional (Inspection, Analysis) (See comments below)
- Rehabilitate or repair bridge (See comments below)
- Close bridge pending further (Inspection, Rehabilitation, or Repair)
- Perform special inspection (Underwater, Fracture critical, Scour, 12-month Inspection, Special access)



COMMENTS AND/OR MATERIALS REQUIRED TO UPGRADE BRIDGE

NONE

EXISTING LOAD POSTING

PROPOSED LOAD POSTING FOR PRESENT CONDITION (If Applicable)

	Inventory	Operating
<input checked="" type="checkbox"/> None		
<u>R12-2Tb</u>	<u>Lbs Axle or Tandem</u>	<u>Lbs Axle or Tandem</u>
<u>R12-2Tc</u>	<u>Lbs Tandem Axle</u>	<u>Lbs Tandem Axle</u>
<u>R12-4Tb</u>	<u>Lbs Gross</u>	<u>Lbs Gross</u>
<u>R12-4Tc</u>		
<u>Other (Description)</u>		

(District to decide Load Posting according to either Inventory or Operating rating)

Proposed Sign (I-Inventory, O-Operating)

	Sign	Max. Span	Load Limit
I	O	Type	
<input type="checkbox"/>	<input type="checkbox"/>	R12-2Tb	< 40 ft ≤ 20,000 #
<input type="checkbox"/>	<input type="checkbox"/>	R12-2Tc	< 40 ft > 20,000 #
<input type="checkbox"/>	<input type="checkbox"/>	R12-4Tb	≥ 40 ft ≤ 20,000 #
<input type="checkbox"/>	<input type="checkbox"/>	R12-4Tc	≥ 40 ft > 20,000 #

WEIGHT LIMIT	WEIGHT LIMIT	WEIGHT LIMIT	WEIGHT LIMIT
AXLE OR TANDEM	TANDEM AXLE	GROSS	GROSS
.551	.551	.551	.551
R12-2Tb	R12-2Tc	R12-4Tb	R12-4Tc

Bridge Inspection Record

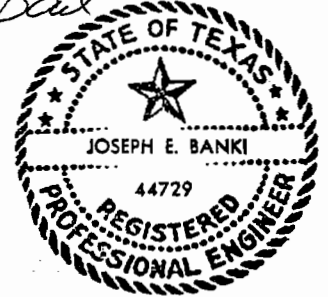
District 18 County 057 Cont-Sec P002-00 Structure 001 Route Farmbrook Dr.

Description Single-span prestressed concrete beam bridge over Farmers Branch Creek

Inspector's Signature John R. Galus Date 10/09/98

- N - Not applicable
- 9 - Excellent condition
- 8 - Very good condition
- 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 but beyond repair

John R. Galus



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 <u>concrete</u>	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 <u>non-standard</u>	8	
7	Railing Protective Coating	7	3
	Delineation (curve markers)	N	
	Other	N	

Comments: 1. Worn deck, exposed aggregate, minor cracks.
2. Extruding seal end joints.
3. Paint peeling, minor rust.

Min.	Superstructure (Item 59)	Rating	
0	Main Members - Steel	N	
0	Main Members - Concrete	8	
0	Main Members - Timber	N	
0	Main Member Connections	N	
1	Floor System Members	N	
1	Floor System Connections	N	
5	Secondary Members	6	1
5	Secondary Member Connections	6	1
6	Expansion Bearings	8	
	Fixed Bearings	8	
	Steel Protective Coating	N	
	Other	N	
	Component Rating	6	

Comments: 1. Diaphragm coming loose at connections. Steel tie rods added.

Bridge Appraisal Worksheet

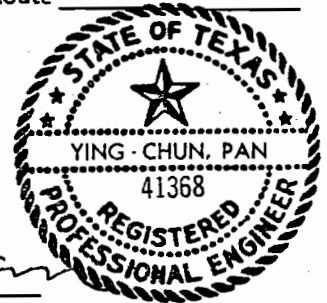
District 18 County 057 Cont-Sec P002-00 Structure 001 Route Farmbrook Dr

Traffic Safety Features (Item 36)	
Non-standard Steel Rail	
Bridge Railing (1st Digit)	Rating — <input type="text" value="0"/>
Transitions (2nd Digit)	Rating — <input type="text" value="0"/>
No Guardfence provided	
Approach Guardrail (3rd Digit)	Rating — <input type="text" value="0"/>
Guardrail Terminal (4th Digit)	Rating — <input type="text" value="0"/>

Date Oct. 21, 1998

V 7.7

Signature



Underclearances (Item 69)	
Stream or waterway crossing	
	Rating — <input type="text" value="N"/>

Structural Evaluation (Item 67)	
Superstructure Rating = 6	
Substructure Rating = 8	
----- Table 1 -----	
500 < ADT <= 5000	
Inventory Rating = HS-15.0 ==> 6	
	Rating — <input type="text" value="6"/>

Bridge Posting (Item 70)	
Operating Rating = HS-20.0 ==> 5	
	Rating — <input type="text" value="5"/>

Deck Geometry (Item 68)	
----- Table 2A -----	
2 Lanes; 2-Way Traffic	
401 to 1000 ADT	
Roadway Width = 29.0 FT ==> 5	
----- Table 2E -----	
Collector or Local Route or Frontage Road	
Vertical Clearance = 99 FT 99 IN	
	==> 9
	Rating — <input type="text" value="5"/>

Waterway Adequacy (Item 71)	
Minor collectors or locals.	
Bridge deck overflowing every 11 to 100 years.	
	==> 7
	Rating — <input type="text" value="7"/>

Approach Roadway Alignment (Item 72)	
Regulatory speed = 20 MPH	
Approach alignments are good.	
No speed reduction required ==> 8	
	Rating — <input type="text" value="8"/>

B

DI CO. RD/C-ST STR DUP STR-F
 18 057 P002 00 001 0 1

** (006-1) FEATURE-X
 FARMERS BRANCH CREEK

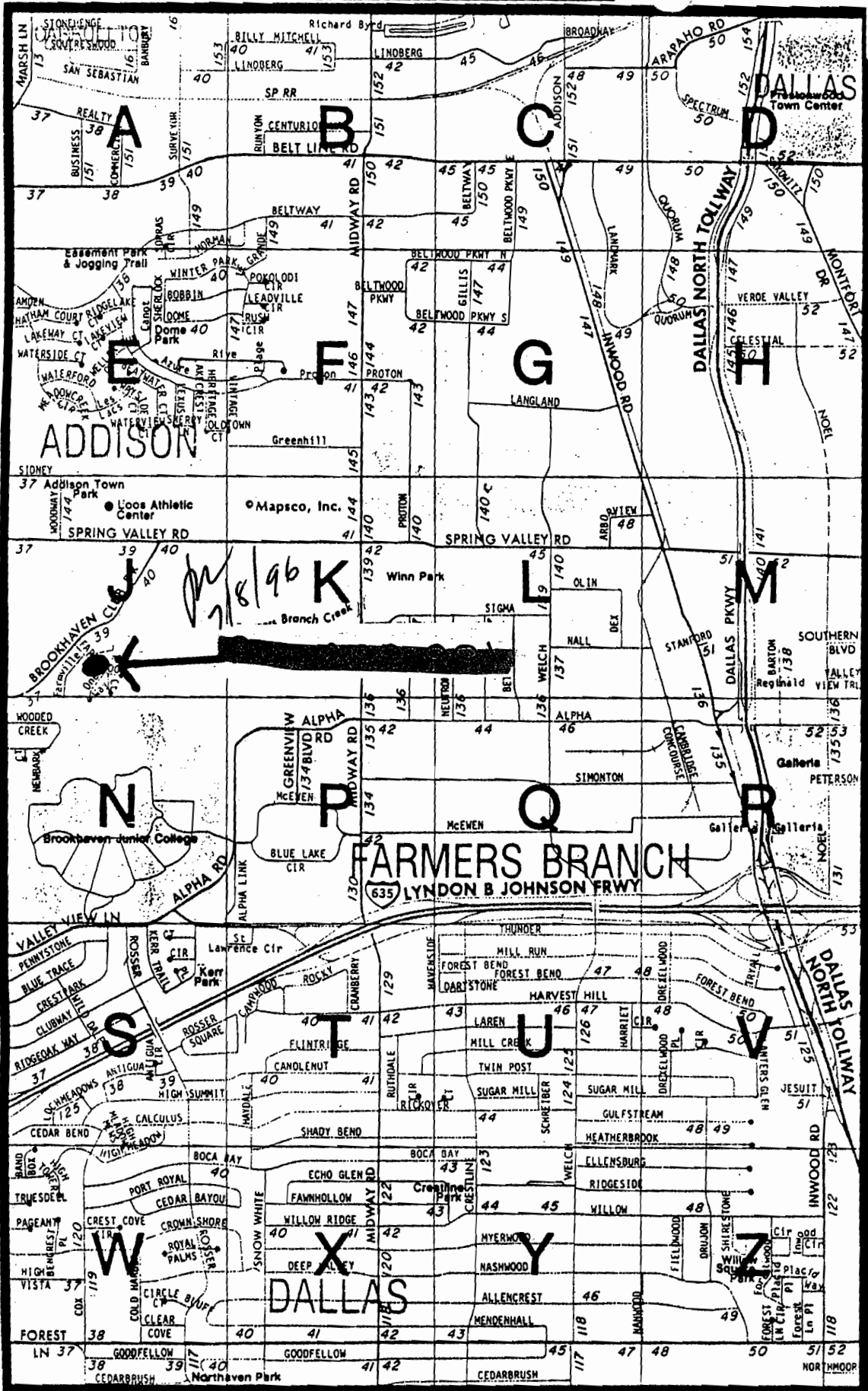
** (007-0) FACILITY
 FARBROOK DRIVE

** (009-0) LOCATION
 0.1 MI S OF BROOKHAVEN CR

ITEM #	FIELD	CODE	ITEM #	FIELD	CODE	ITEM #	FIELD	CODE
(002-0)	DISTRICT	18	(044-2)	SUBSTR MAJ APP SPAN....		(104-0)	N H S	1
(003-0)	COUNTY	057	(044-3)	SUBSTR MIN APP SPAN....		(106-0)	YR RECONST	0000
(008-4)	CONTROL	P002	(045-1)	NO.MAIN SPAN	001	(106-1)	WIDENING CODE	0
(008-5)	SECTION	00	(045-2)	NO.MAJ APPR SPAN		(107-1)	DECK STR TYP MAIN S....	1
(011-0)	MI-POINT	00180	(045-3)	NO.MIN APPR SPAN		(108-1)	MAIN SPAN WEAR SF	186
(008-6)	STR.NO	001	(046-0)	TOTAL NUMBER SPANS	0001	(107-2)	STR.TYP MAJ APP SP	N
(008-3)	DUPLI.RT OV	0	(047-0)	TOTAL HORIZ CLR	0311	(108-2)	MAJ.APP SPN WEAR SF....	NNN
(005-1)	RT.STR FUNCT	1	(048-0)	MAX.SPAN LENGTH	0117	(107-3)	STR.TYP MIN APP SP	N
(005-3)	RT.DESIGN	1	(049-0)	STR.LENGTH	000119	(108-3)	MIN.APP SPN WEAR SF....	NNN
(005-2)	HWY.SYS	31	(050-1)	LEFT SIDEWALK	052	(109-0)	AADT TRK PERCENT	
(005-4)	HWY NO	0000	(050-2)	RIGHT SIDEWALK	015	(110-0)	DESIGN NATION NETWK....	0
(005-5)	ROUTE DIR	0	(051-0)	ROADWAY WIDTH	0244	(111-0)	PIER/ABUT PROTECT	1
(011-1B)	REF-MKR & DISP		(052-0)	DECK WIDTH	0311	(112-0)	NBIS BRIDGE LENGTH	Y
(004-0)	CITY CODE	00200	(053-0)	VERT.CLR OV	9999	(113-0)	SCOUR CRITI BDG	8
(006-2)	CRIT.BDG		(054-1)	VERT.CLR REF FEAT	N	(113-1)	SCOUR VULNERABILTY	A
(011-1)	MIPT DATE(PRI)		(054-2)	VERT.CLR UND	0000	(114-0)	FUTURE AADT	000100
(011-A1)	MIPT DATE(IR)		(055-1)	LAT.CLR REF FEAT	N	(115-0)	YR OF FUTURE AADT	10
(010-0)	RT.MIN VERT CLR	9999	(055-2)	RIGHT LAT CLEAR	999	(116-0)	MIN.NAVIG VERT CLR	
(016-0)	LAT.(99D99.9')	00000	(056-0)	LEFT LAT CLEAR	000	(119-0)	COST ORGIN CONSTR	
(017-0)	LONG(999D99.9')	000000	(058-0)	DECK COND	7	(120-0)	DEFI / OBSO	
(019-0)	BYPASS LENGTH	00	(059-0)	SUPERSTR COND	6	(121-0)	SUFF.RATING	92.0
(020-0)	TOLL	3	(060-0)	SUBSTR COND	8	(122-0)	X-REF.PRI RT ID	
(021-0)	MAINT.RESPON	04	(061-0)	CHANN-PROTECT	8	(123-0)	STR.FUNC PRI RT	
(022-0)	OWNER	04	(062-0)	CULVERT	N	(124-0)	X-REF.IR ID	
(022-1)	MAINT.SECT NO		(064-0)	OPERATION RATING	236	(125-0)	STR.FUNCT IR	
(023-1)	PROJECT TYPE	9	(065-0)	RDWY APPR COND	86	(126-0)	DIST USE...NW	0.3
(023-2)	CONT/SECT/JOB	P00200	(066-0)	INVENT RATING	227	(128-0)	OV.HEIGHT DAMAGE	N
(026-0)	FUNCT.CLASS	46	(067-0)	STR.EVALUATION	(6) 6	(008-4A)	IR.CONTROL	
(027-0)	YR ORGIN BUILT	1985	(068-0)	DECK GEOMETRY	(5) 5	(008-5A)	IR.SECTION	
(028-1)	LANES ON STR	02	(069-0)	UND.CLR VERT&HORIZ	(N) N	(011-A)	IR.MILEPOINT	
(028-2)	LANES UNDER STR	00	(070-0)	BRIDGE POSTING	5	(008-6A)	IR.STR NO	
(029-0)	AADT	000150	(071-0)	WATERWAY ADEQUACY	8	(008-3A)	IR.DUPL OVER	
(030-0)	YR OF AADT	24	(072-0)	APPR RDWY ALIGN	8	(005-1A)	IR.FUNCTION	
(031-0)	DESIGN LOAD	0	(075-0)	TYPE WORK-REPLACE		(005-3A)	IR.DESIGNAT	
(032-0)	APPROACH WIDTH	024	(076-0)	LENGTH IMPROVEMENT	000000	(005-2A)	IR.HWY SYS	
(033-0)	MEDIAN	0	(088-0)	ST-FRAC-CRIT/STEEL	NNNN	(005-4A)	IR.HWY NO	
(034-0)	SKEW	00	(090-0)	LAST INSP.(MMDDYY)	100998	(005-5A)	IR.DIR	
(035-0)	STR.FLARED	0	(091-0)	DESIGNAT INSP FREQ	24	(011-2B)	IR.REF-MKR/DISP	
(036-0)	TRAF.SAFTY FEAT	0000	(092-1)	FRACT/CRITI DETAIL	N	(047-A)	IR.HORIZ CLR	
(037-0)	HISTORICAL SIGNIF	5	(092-2)	UNDERWATER INSP	N	(010-A)	IR.RT.MIN VERT CLR	
(038-0)	NAVIG.CNTL	0	(092-3)	OTHER SPECIAL INSP	N	(019-A)	IR.BYPASS LGTH	
(039-0)	NAVIG.VERT CLR	000	(093-1)	FRACT/CRITI(MMY)		(020-A)	IR.TOLL	
(040-0)	NAVIG.HORIZ CLR	0000	(093-2)	UN/WATER INSP(MMY)		(026-A)	IR.FUNCT CLASS	
(041-0)	OPER.STATUS	A	(093-3)	OT/SPEC.INSP(MMY)		(029-A)	IR.AADT	
(041-1)	LOAD TYPE	N	(094-0)	BDG IMPROVE COST		(030-A)	IR.YEAR OF ADT	
(041-2)	LOAD IN 1000LBS	NNN	(095-0)	RDWY IMPROVE COST		(100-A)	IR.DEF HWY DESIGN	
(042-0)	TYPE SERVICE	15	(096-0)	TOTAL PROJECT COST	000000	(101-A)	IR.PAR STR DESIG	
(043-1)	MAIN SPAN TYPE	1131	(097-0)	YR IMPROVE COST EST.		(102-A)	IR.DIR OF TRAF	
(043-2)	MAJ.APP SPAN TYPE		(098-0)	BORDER BRIDGE		(103-A)	IR.TEMP STR DESIGN	
(043-3)	MIN.APP SPAN TYPE		(099-0)	BORDER STR NO...		(104-A)	IR. N H S	
(043-4)	CULVERT TYPE		(100-0)	DEFENSE HWY DESIGN	0	(109-A)	IR.AADT TRK %	
(043-5)	TUNNEL TYPE		(101-0)	PARALLEL STR DESIGN.	N	(110-A)	IR.DESIG NAT NETWK	
(044-1)	SUBSTR MAIN SPAN		(102-0)	DIR.OF TRAFFIC	2	(114-A)	IR.FUTURE AADT	
			(103-0)	TEMP STR DESIGN		(115-A)	IR.YR OF FUT AADT	

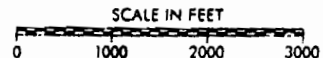
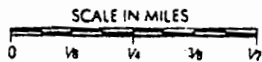
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 74

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CONTINUED ON MAP 13

CONTINUED ON MAP 15



DATE 10-9-98

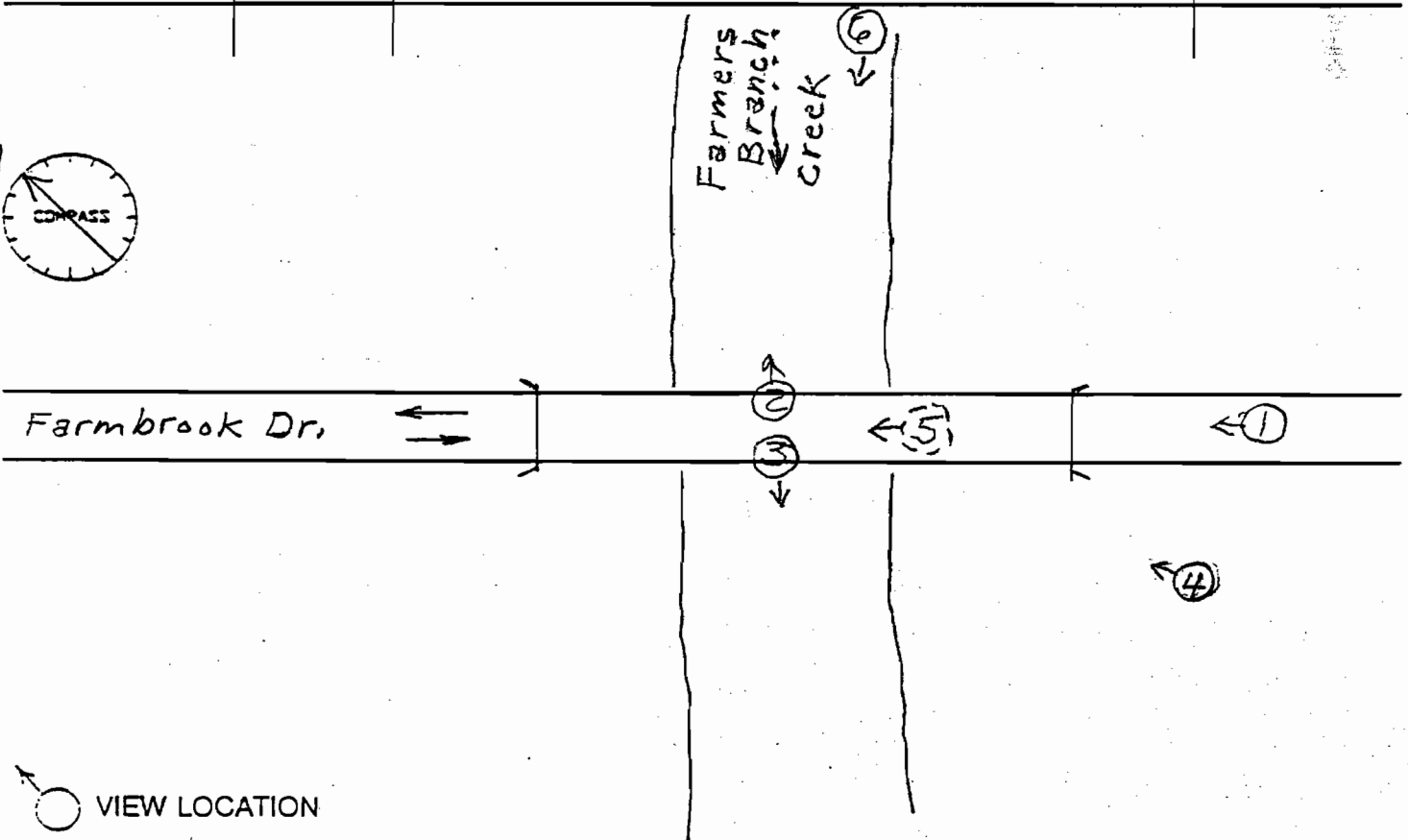
COUNTY 18-057-P002-00

BRIDGE 001

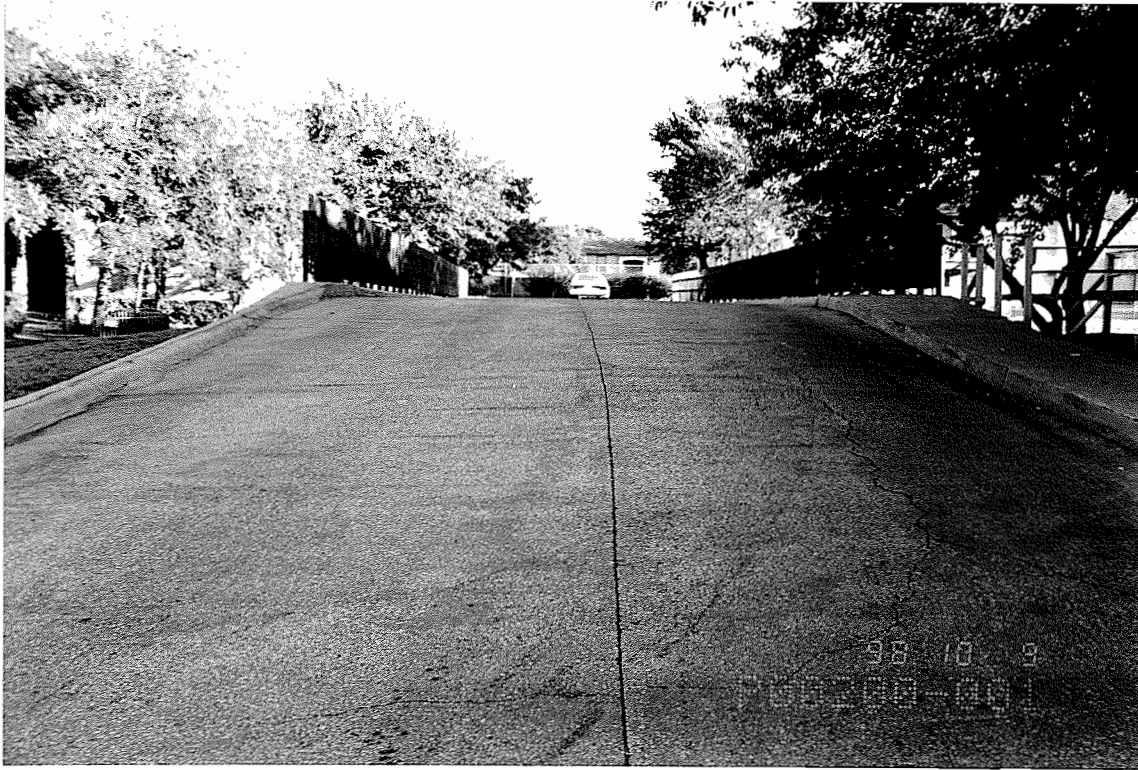
ROLLS 3

PHOTOGRAPH SUMMARY SHEET

NEGATIVE NUMBER	VIEW NUMBER	CAPTION	NOTES
16	1	ROADWAY OVER BRIDGE (Looking NW)	
17	2	VIEW FROM BRIDGE (Looking Up Stream)	NE
18	3	VIEW FROM BRIDGE (Looking Down Stream)	SW
19	4	ELEVATION (Looking N)	
20	5	SUPERSTRUCTURE (Looking NW)	
21	6	STREAM (Looking SW)	
		ROADWAY UNDER _____ (Looking)	



 VIEW LOCATION



Roadway Over Bridge
Looking Northwest

Neg. 16 View 1



Upstream View
Looking Northeast

Neg. 17 View 2



Downstream View
Looking Southwest

Neg. 18 View 3



Elevation
Looking North

Neg. 19 View 4



Superstructure
Looking Northwest

Neg. 20 View 5



Stream
Looking Southwest

Neg. 21 View 6