

SCDOT BRIDGE INSPECTION FORM

15 of 35

(008) BRIDGE ID: 2220070100400
(005) ROUTE: GEORGETOWN US 701
(006) CROSSING: YAUHANNAH LAKE

(009) LOCATION: 2 MI NE YAUHANNAH
(026) FUNCTIONAL CLASS: 03

B. J. H.

GENERAL BRIDGE DATA

	EXISTING	REVISED		EXISTING SUP-SUB	REVISED SUP-SUB
(027) YEAR BUILT	1953		(043) MAIN ORIGINAL (A)	1 04 1	
(106) YEAR RECON	0		MAIN RECONST (B)		
(031) DESIGN LOAD	3		(044) APPR ORIGINAL (A)	0 00 0	
(032) APPR RDWAY	38		APPR RECONST (B)		
(033) BRIDGE MEDIAN	0		(107) DECK STRUCT	1	
(034) SKEW	0		(108) WEAR SURF	1 8 8	
(035) FLARED	0		(045) # MAIN SPANS	48	
(36A) RAILINGS	0		(046) # APPR SPANS	0	
(36B) TRANSITIONS	0		(048) MAX SPAN LGTH	30	
(36C) APPR GUARD	0		(308) APPR SPAN LGTH	0	
(36D) APPR GUARD END	0		(049) STRUCT LENGTH	1440	
(041) TRAFFIC STATUS	A		(037) HISTORY	4	

GEOMETRIC DATA

	EXISTING	REVISED		EXISTING	REVISED
(038) NAVIGATION CONT	0		(042) TYPE SERV; (A)-(B)	1 5	
(039) NAV VERT CLEAR	0		(028) LANES; ON(A) UND(B)	2 0	
(040) NAV HORZ CLEAR	0		(47A) HORZ CLEAR RIGHT	26	
(111) NAV PIER PROT			(47B) HORZ CLEAR LEFT	0	
(10A) GREAT MIN OVER	FT IN	FT IN	(47UA) HORZ CLEAR RIGHT	0	
UNDERCLEARANCES	99 99		(47UB) HORZ CLEAR LEFT	0	
(10B) GREAT MIN RIGHT	99 99		(50B) SIDEWALK RIGHT	3	
(10C) GREAT MIN LEFT	99 99		(50A) SIDEWALK LEFT	3	
(54A) VERT CLEAR REF	N		(051) CURB TO CURB	26	
(54B) VERT CLEAR RIGHT	0 0		(052) DECK OUT-OUT	33.5	
(54C) VERT CLEAR LEFT	0 0		(053) VERT CLEARANCE	FT IN	FT IN
(55A) LAT CLEAR REF	N		ABOVE DECK	99 99	
(55B) LAT CLEAR RIGHT	99.9				
(55C) LAT CLEAR LEFT	0				

CONDITION RATINGS

	EXISTING	REVISED		EXISTING	REVISED
(063) OPERATING RATING METHOD	2		(58) DECK	5	
(064) OPERATING RATING	52		(59) SUPER STR	4	
(065) INVENTORY RATING METHOD	2		(60) SUB STR	3	
(066) INVENTORY RATING	36		(061) CHANNEL	8	
(319) LAST PAINT DATE			(062) CULV RET	N	

CRITICAL INSPECTION DATA

	EXISTING	REVISED
(090) INSP DATE	04/2012	<u>4/14</u>
(091) INSP FREQ	24	
(113) SCOUR CRITICAL	5	
	INTERVAL MTH YR	INTERVAL MTH YR
(93A) FRACTURE	N	
(93B) UNDERWATER	Y60 04/2013	
(93C) SPECIAL	N	

APPRAISAL RATINGS

	EXISTING	REVISED
(067) STRUCTURE	3	GEN
(068) DECK GEOM	3	GEN
(069) UNDERCLEAR	N	GEN
(070) BRIDGE POST	5	GEN
(071) WATER ADEQ	8	
(072) APPR RDWAY	8	
(411) LOAD RATING ID	1/27/1988	

20/
1953

J. H.

04/09/2014

Bridge Element Group Textual Data

Bridge ID: 22-2-00701-0-04-00

22 Apr-2014

Abutments and/or Headwalls:

Spill through. Good

Bents and/or Piers:

24x30 inch rein. conc. cap on 4-16x16 inch rein. conc. piles. Satis. Note: There are numerous collars with bolts and shims missing. (See Tee Beam sheets for locations) Helper bents were installed on bents 28 and 29 in 2012. (See attached sheets for changes).

Bearings:

Asphalt membrane. Satis.

Girders/Floor Beams/Stringers and/or Beams:

14x24 inch rein. conc. Tee Beams. Fair to Poor. See Tee Beam sheets. All beams are collared. 50%-Fair 50%-Poor

Truss Members:

N/A

Expansion Joints:

Hot poured sealer. Poor Rec. resealing joints.

Decks and/or Slabs:

Rein. conc. cast in place. Satis.

Curbs:

10 inch rein. conc. curbs. Satis. 3.0 ft. rein. conc. sidewalks. Satis.

Bridge Railing/Parapets and/or Median Barriers:

31 inch rein. conc. rails. Satis. Single leaf galv. steel rail on TT posts and spacers on approaches. Thrie galv. steel on I-beam posts and spacers bolted to the sidewalk across entire bridge. Satis. Some minor vehicle damage. Bolts and nuts are missing on most of the railings across the bridge. Rec. reattaching railing.

Paint System(s):

Satis. on collars, some minor rusting.

Waterway and Scour:

Good

Fender System:

N/A

Roadway Alignment:

Good Good 24 ft. asphalt roadway.

Traffic Signs:

4 yellow and black hazard markers in place.

Encroachments:

N/A

Miscellaneous Notes:

All beams collared.

"T" BEAM DEFECTS

STRUCTURE # 2220070100400 DIRECTION: N to S

ROUTE: US-701 DATE: April 22, 2014

CS - CAP SPALL
NC - NEEDS COLLAR
X - COLLARED
NP - SANDBLAST &
REPAINT
BO- BOLTS OUT
NR - REPLACE COLLAR

BENT #	BEAM NUMBER			
	1	2	3	4
1	X	X	X	X
2	X BO	X	X BO	X
3	X	X	X	X
4	X	X	X	X
5	X	X	X BO	X
6	X	X	X	X
7	X SHIMS OUT	X SHIMS OUT	X SHIMS OUT	X
8	X	X	X	X
9	X	X	X	X
10	X	X BO	X	X
11	X	X	X	X
12	X	X shims out	X	X

"T" BEAM DEFECTS

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BENT #	BEAM NUMBER			
	1	2	3	4
13	X	X	X SHIMS OUT	X
14	X	X	X	X
15	X	X	X BO	X BO
16	X	X BO	X BO	X BO & SHIMS OUT
17	X SHIMS OUT	X	X BO	X SHIMS OUT
18	X	X	X	X
19	X	X	X	X
20	X	X BO	X	X
21	X SHIMS OUT	X	X	X
22	X	X	X BO	X ADJUST SHIMS
23	X	X BO	X	X ADJUST SHIMS
24	X SHIMS OUT	X BO	X BO	X

"T" BEAM DEFECTS

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BENT #	BEAM NUMBER			
	1	2	3	4
25	X	X BO	X BO & SHIMS OUT	X SHIMS OUT
26	X SHIMS OUT	X	X	X
27	X	X	X	X
28	X	X	X	X
29	X	X	X	X BO
30	X	X	X	X
31	X BO	X	X	X
32	X	X	X	X
33	X	X	X	X
34	X BO	X BO	X	X
35	X	X	X BO	X
36	X	X	X	X

"T" BEAM DEFECTS

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ROUTE: US-701 DATE: April 22, 2014

CS - CAP SPALL
NC - NEEDS COLLAR
X - COLLARED
NP - SANDBLAST &
REPAINT
BO- BOLTS OUT
NR - REPLACE COLLAR

BENT #	BEAM NUMBER			
	1	2	3	4
37	X	X	X	X
38	X SHIMS OUT	X	X	X SHIMS OUT
39	X	X SHIMS OUT	X SHIMS OUT	X
40	X SHIMS OUT	X SHIMS OUT	X SHIMS OUT	X SHIMS OUT
41	X SHIMS OUT	X	X	X SHIMS OUT
42	X	X	X	X SHIMS OUT
43	X SHIMS OUT	X	X	X SHIMS OUT
44	X	X	X	X
45	X	X	X	X
46	X	X	X	X
47	X	X	X	X
48				

"T" BEAM DEFECTS

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ROUTE: US-701 DATE: April 22, 2014

CS - CAP SPALL
NC - NEEDS COLLAR
X - COLLARED
NP - SANDBLAST &
REPAINT
BO- BOLTS OUT
NR - REPLACE COLLAR

BEAM NUMBER

BENT #

1

2

3

4

49

ABUTMENT

BRIDGE INSPECTION STREAM/GROUND PROFILE

BRIDGE NUMBER: 222-701-400

ROAD NUMBER: US-701

COMMENTS:

CROSSING: YAMHANNAN LAKE

*TOP OF WATER TO TOP OF CURB

HORIZONTAL BLOCKAGE(%) TO

VERTICAL BLOCKAGE(%)

* = FEET

PAGE 1 OF 4

BENT 1

NORTH/SOUTH/EAST/WEST
LEFT ABUTMENT

BENT 2

17.3 | 15.8

BENT 3

22.1 | 21.7

UPSTREAM

DOWNSTREAM

BENT 4

22.0 | 21.3

BENT 5

Flood
Rain
+or- = 2'

22.0 | 22.0

BENT 6

RIGHT ABUTMENT
NORTH/SOUTH/EAST/WEST

BSKD

4-22-14

MEASUREMENT BY

DATE MEASURED

TIME

MEASUREMENTS ARE FROM TOP OF CURB TO GROUND LINE

BRIDGE INSPECTION STREAM/GROUND PROFILE

COMMENTS:

BRIDGE NUMBER: _____

ROAD NUMBER: _____

CROSSING: _____

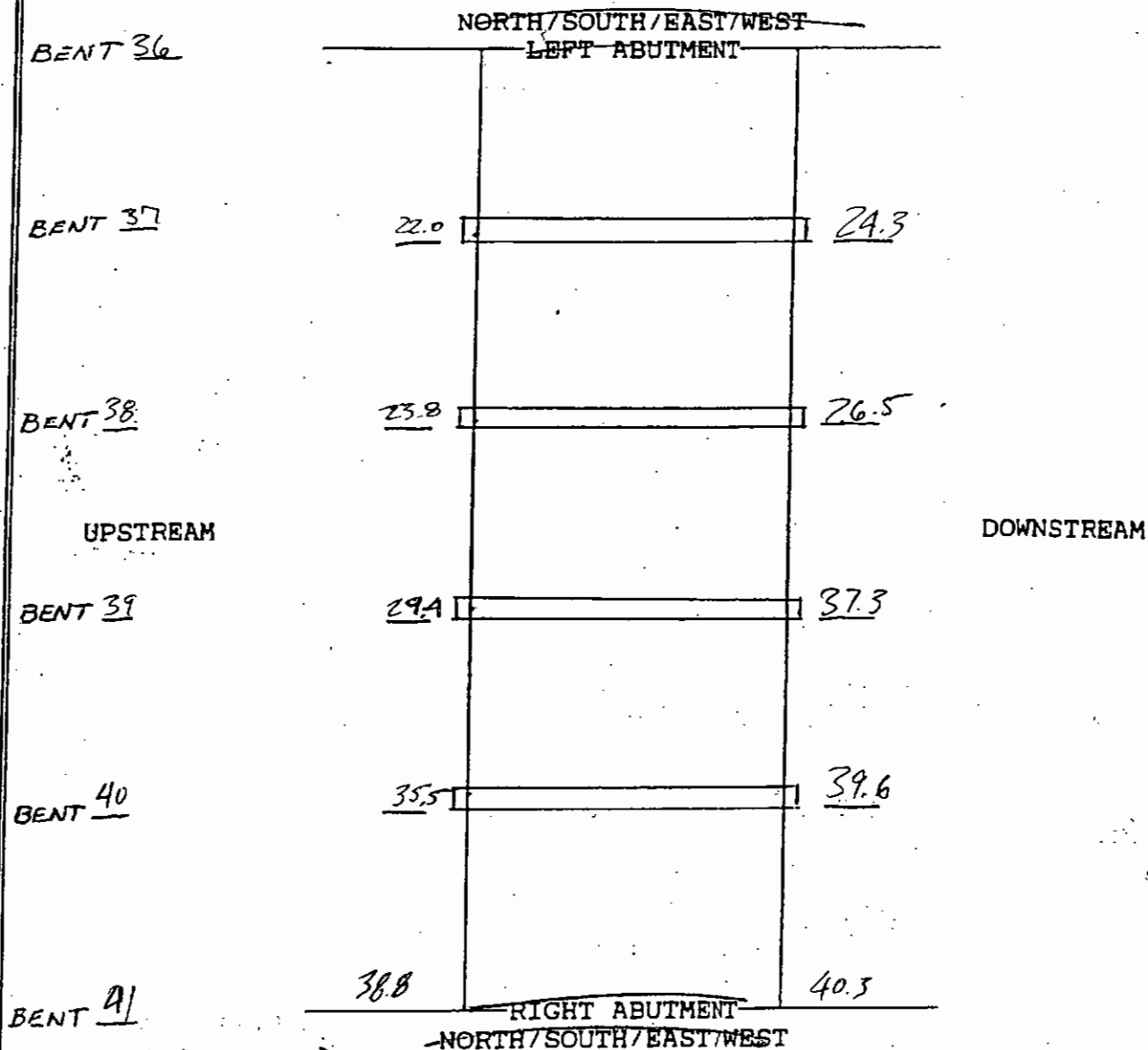
*TOP OF WATER TO TOP OF CURB

HORIZONTAL BLOCKAGE(%) _____ TO _____

VERTICAL BLOCKAGE(%) _____

* = _____ FEET

PAGE 2 OF A



4-22-1A

MEASUREMENT BY _____

DATE MEASURED _____

TIME _____

BRIDGE INSPECTION STREAM/GROUND PROFILE

COMMENTS:

BRIDGE NUMBER: _____

ROAD NUMBER: _____

CROSSING: _____

*TOP OF WATER TO TOP OF CURB

HORIZONTAL BLOCKAGE(%) _____ TO _____

VERTICAL BLOCKAGE(%) _____

* = 22.0 FEET

PAGE 3 OF 4

BENT 42

NORTH/SOUTH/EAST/WEST
LEFT ABUTMENT

BENT 43

40.5

40.9

BENT 44

40.7

39.7

UPSTREAM

DOWNSTREAM

BENT 45

40.4

38.3

BENT 46

22.7

22.6

BENT 47

14.6

15.7

RIGHT ABUTMENT
NORTH/SOUTH/EAST/WEST

NO. 11

4-22-14

MEASUREMENT BY _____

DATE MEASURED _____

TIME _____

**BRIDGE INSPECTION
STREAM/GROUND
PROFILE**

BRIDGE NUMBER: _____

ROAD NUMBER: _____

COMMENTS:

CROSSING: _____

*TOP OF WATER TO TOP OF CURB

HORIZONTAL BLOCKAGE(%) _____ TO _____

VERTICAL BLOCKAGE(%) _____

* = _____ FEET

BENT 47

NORTH/SOUTH/EAST/WEST

LEFT ABUTMENT

BENT 48
UPSTREAM

14.0

10.3

DOWNSTREAM

BENT 49

RIGHT ABUTMENT

NORTH/SOUTH/EAST/WEST

4.22.19

MEASUREMENT BY _____

DATE MEASURED _____

TIME _____

PAGE _____ OF _____

MEASUREMENTS ARE FROM TOP OF CURB TO GROUND LINE

BRIDGE INSPECTION STREAM/GROUND PROFILE

BRIDGE NUMBER: 2220070100400

ROAD NUMBER: 45.701

COMMENTS:

CROSSING: Yahannock Lake

*TOP OF WATER TO TOP OF CURB

HORIZONTAL BLOCKAGE(%) TO

* = FEET

VERTICAL BLOCKAGE(%)

PAGE 1 OF 4

BENT 1

NORTH/SOUTH/EAST/WEST

LEFT ABUTMENT

BENT 2

17.1

15.6

BENT 3

22.2

21.8

UPSTREAM

DOWNSTREAM

BENT 4

21.9

21.5

BENT 5

*floodplain
+ 01'-2'*

21.8

21.9

BENT 6

RIGHT ABUTMENT

NORTH/SOUTH/EAST/WEST

cont.

SC+MG+KD+BS+ME

4-28-12

MEASUREMENT BY

DATE MEASURED

TIME

MEASUREMENTS ARE FROM TOP OF CURB TO GROUND LINE

BRIDGE INSPECTION STREAM/GROUND PROFILE

BRIDGE NUMBER: _____

ROAD NUMBER: _____

COMMENTS:

CROSSING: _____

*TOP OF WATER TO TOP OF Rail ~~CURB~~

HORIZONTAL BLOCKAGE(%) _____ TO _____

* = _____ FEET

VERTICAL BLOCKAGE(%) _____

PAGE 2 OF 4

BENT 36

NORTH/SOUTH/EAST/WEST

LEFT ABUTMENT

BENT 37

22.0

24.0

BENT 38

23.7

26.4

UPSTREAM

DOWNSTREAM

BENT 39

29.3

37.2

BENT 40

35.4

39.4

BENT 41

38.7

40.1

RIGHT ABUTMENT

NORTH/SOUTH/EAST/WEST

Cont.

NOI

SCAMG+AD+BSTME

4-23-12

MEASUREMENT BY

DATE MEASURED

TIME

MEASUREMENTS ARE FROM TOP OF Rail ~~CURB~~ TO GROUND LINE

BRIDGE INSPECTION STREAM/GROUND PROFILE

BRIDGE NUMBER: _____

ROAD NUMBER: _____

COMMENTS:

CROSSING: _____

*TOP OF WATER TO TOP OF Rail ~~CURB~~

HORIZONTAL BLOCKAGE(%) _____ TO _____

VERTICAL BLOCKAGE(%) _____

* = 22.0 FEET

PAGE 3 OF 4

BENT 42

NORTH/SOUTH/EAST/WEST

LEFT ABUTMENT

BENT 43

40.3 | 40.7

BENT 44

40.6 | 39.5

UPSTREAM

DOWNSTREAM

BENT 45

40.0 | 38.0

BENT 46

22.9 | 22.8

BENT 47

14.5 | 15.6

RIGHT ABUTMENT

NORTH/SOUTH/EAST/WEST

Cont.

SL & MGT RD DIST ME

4-23-12

MEASUREMENT BY

DATE MEASURED

TIME

MEASUREMENTS ARE FROM TOP OF CURB TO GROUND LINE

**BRIDGE INSPECTION
STREAM/GROUND
PROFILE**

COMMENTS:

BRIDGE NUMBER: _____

ROAD NUMBER: _____

CROSSING: _____

*TOP OF WATER TO TOP OF CURB

HORIZONTAL BLOCKAGE(%) _____ TO _____

VERTICAL BLOCKAGE(%) _____

* = _____ FEET

BENT 47

NORTH/SOUTH/EAST/WEST

LEFT ABUTMENT

BENT 48
UPSTREAM

13.9

10.0

DOWNSTREAM

BENT 49

RIGHT ABUTMENT

NORTH/SOUTH/EAST/WEST

(W)

SL+MG+KD+BS+ME

MEASUREMENT BY

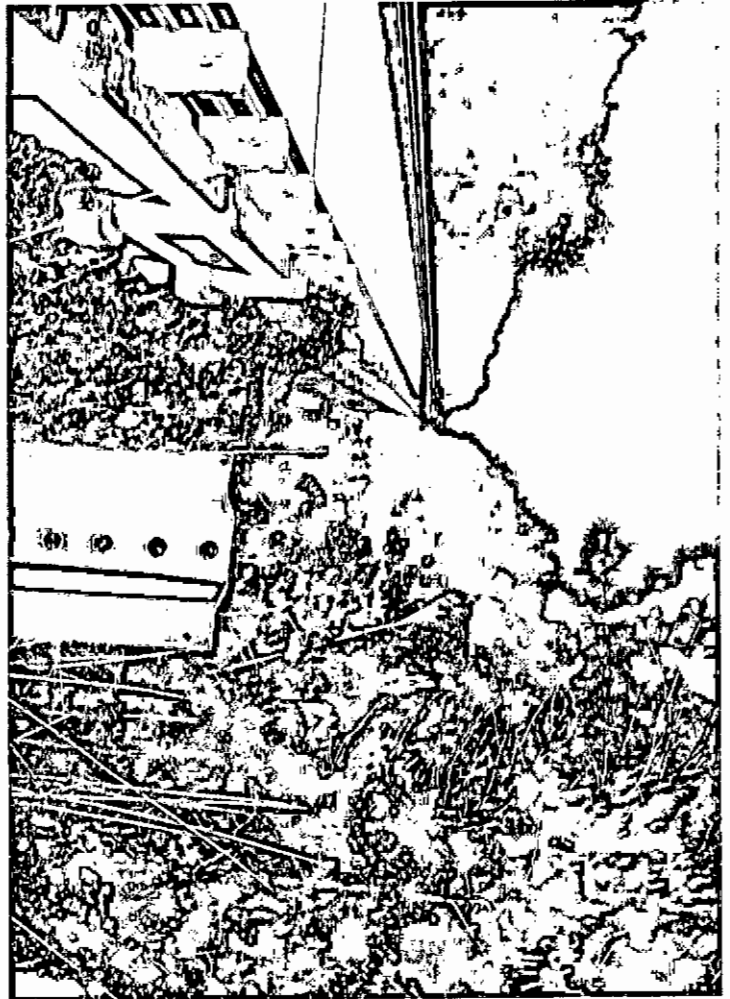
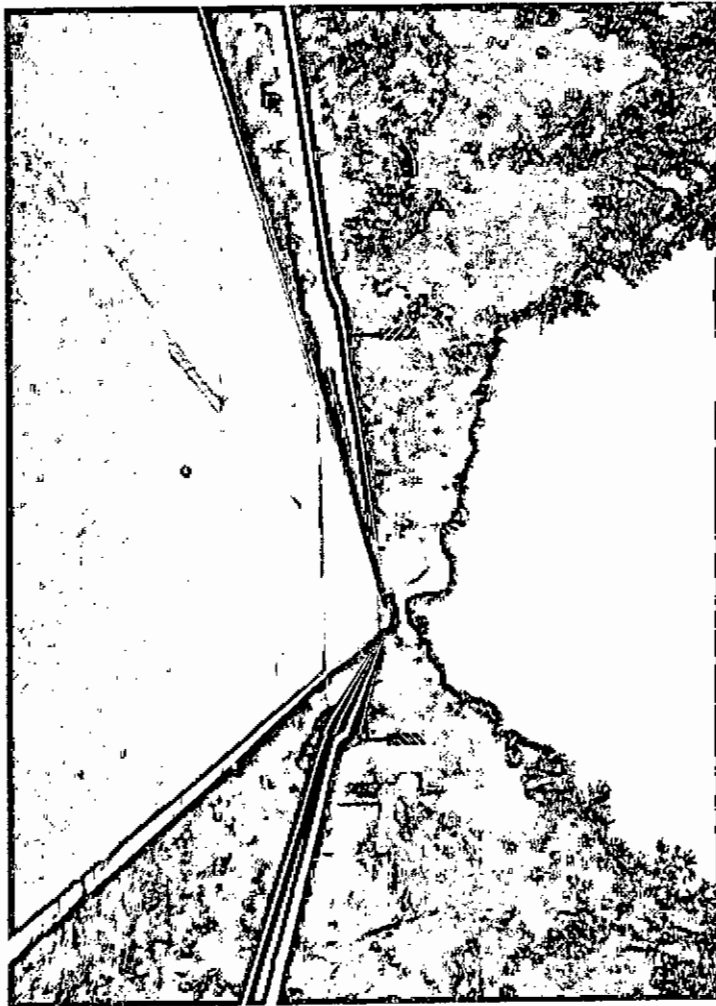
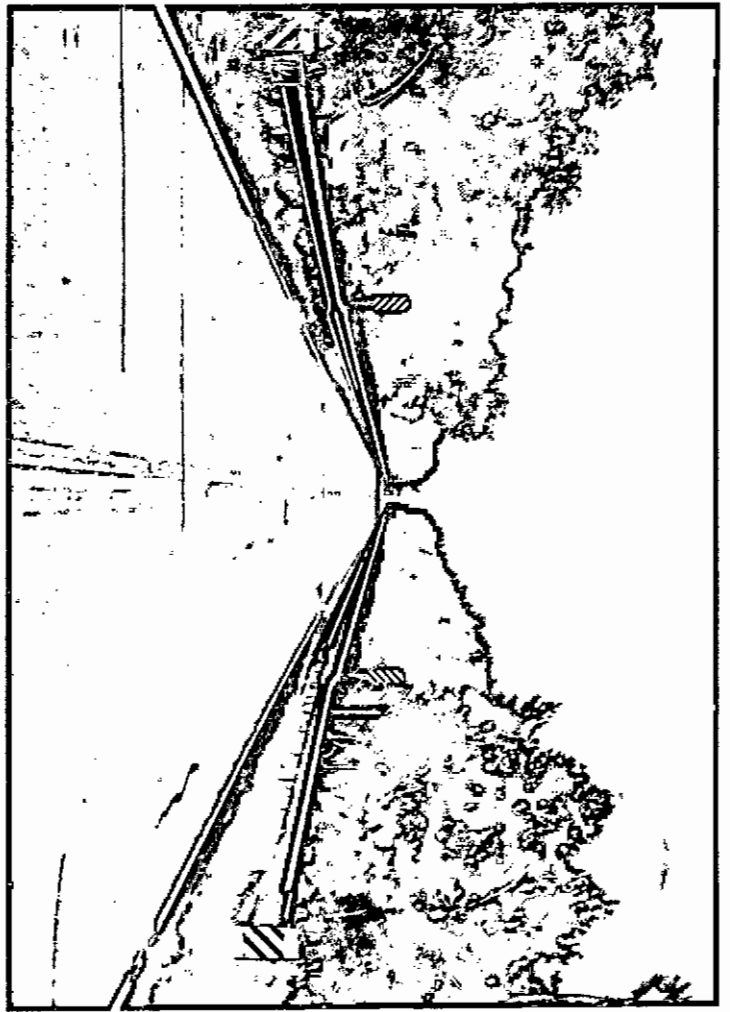
4-23-12

DATE MEASURED

TIME

PAGE 4 OF 4

MEASUREMENTS ARE FROM TOP OF CURB TO GROUND LINE



STRUCTURE NO.: 2220070100400
FACILITY CARRIED: US 701
CROSSING: YAUHANNAH LAKE
INSPECTION DATE: ~~23 Apr 2012~~

CULVERT: N

[illegible]