

HAYWOOD COUNTY

38-SR001-0213

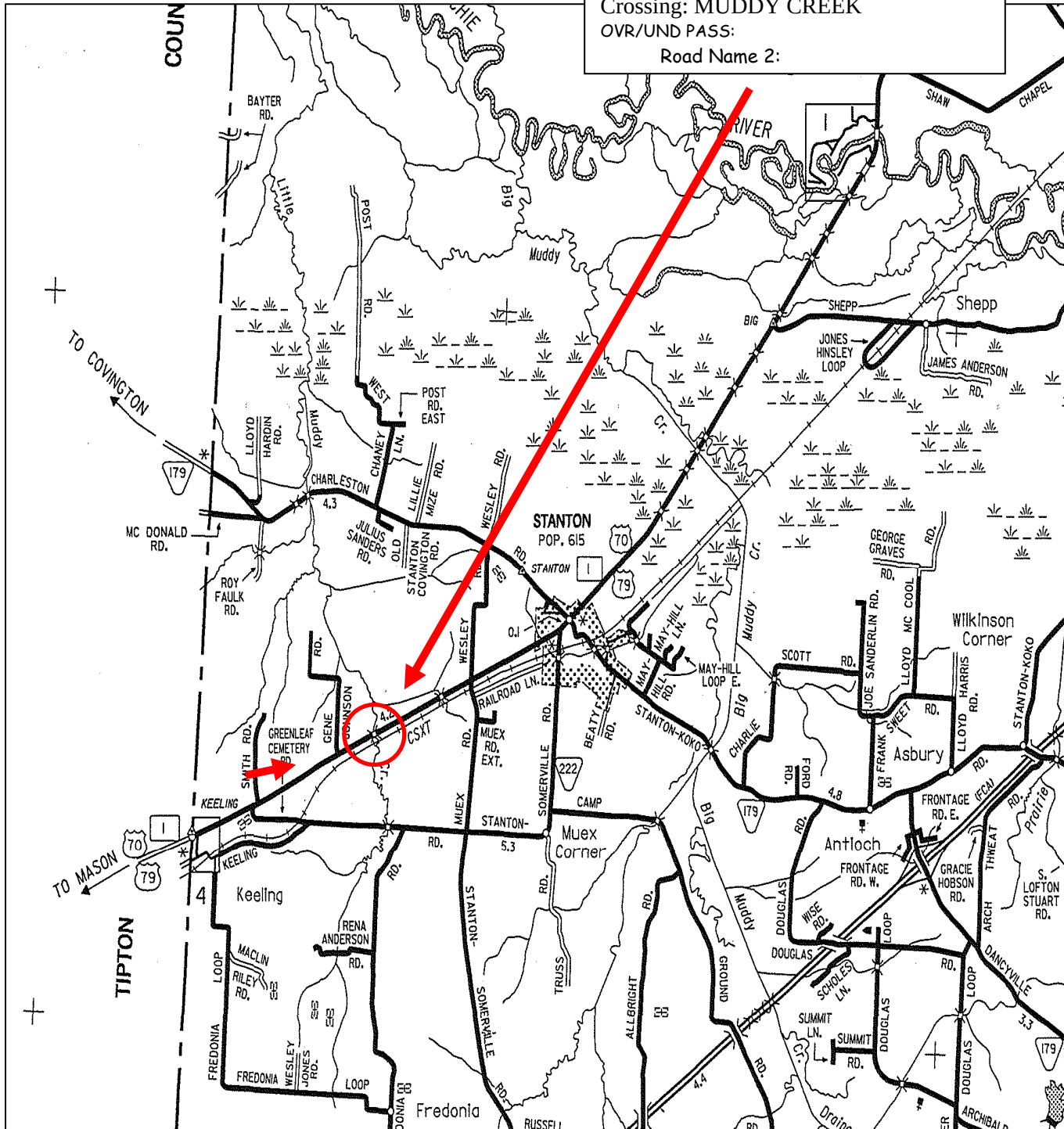
Federal ID: 38SR0010001

Road Name: HWY 79

Crossing: MUDDY CREEK

OVR/UND PASS:

Road Name 2:



BRIDGE MAINTENANCE RECOMMENDATIONS

COUNTY: HAYWOOD

LOCATION: 38-SR001-02.13-

CO. SEQ.: 1 SPEC. CASE: 0

Tennessee Department
of Transportation

CROSSING: MUDDY CREEK

FED. BRIDGE NO.: 38SR0010001

MAINT. DIST.: 38

REPAIR LIST NO.: 2

DATE ADDED: 09/23/1999

REVISED: 10/31/2017

FACILITY CARRIED:	FAP 1	NUMBER OF MAIN SPANS:	2
HIGHWAY SYSTEM:	05-STP RURAL, STATE	NUMBER OF APPROACH SPANS:	0
BRIDGE WIDTH (CURB TO CURB):	28 FT 2 IN	BRIDGE LENGTH (FT):	65
BRIDGE WIDTH (OUT TO OUT):	34 FT 5 IN	MAXIMUM SPAN LENGTH (FT):	33
APPROACH ROADWAY (W/SHOULDERS):	31 FT 2 IN	SKEW ANGLE (DEGREES):	90

MAINTAINED BY:	STATE HIGHWAY AGENCY
MAIN SPAN MATERIAL:	CONCRETE
MAIN SPAN DESIGN TYPE:	TEE BEAM
APPROACH SPAN MATERIAL:	OTHER OR NOT APPLICABLE
APPROACH SPAN DESIGN TYPE:	OTHER OR NOT APPLICABLE

INSPECTION DATE:	10/31/2017	GENERAL CONDITION:	POOR
EVALUATION DATE:	12/28/2015	STRUCTURALLY DEFICIENT:	YES
PPRM PIN NUMBER:			
H TRUCK RATING @ INV.:	20 TONS	SUFFICIENCY RATING:	48.2

SUGGESTED ROUTINE MAINTENANCE AND COMMENTS

REPAIR CONCRETE GIRDER " C & G " IN SPAN NO.2

CLEAN AND PAINT ALL STRUCTURAL STEEL

REPAIR STEEL BEAM "A, B, H & I" IN SPAN NO.1

REPAIR STEEL BEAM "B & H" IN SPAN NO.2

CLEAR DRAINS

CUT AND REMOVE VEGETATION FROM CHANNEL

BRIDGERAILS ARE SUBSTANDARD

GENERAL COMMENTS:



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

Bridge Condition Coding Form

Revised 11/01/2017

Bridge Number:
(Includes Item 5A)

Feature Intersected:

Evaluation Status:

County:

Route:

Special Case:

County Sequence:

Log Mile:

CODE ONLY THOSE VALUES WHICH HAVE CHANGED

ITEM #	DESCRIPTION	VALUE	CONDITION CODING GUIDELINES
90	LAST INSPECTION DATE	10/31/2017	(Values for Coding Items 58, 59, 60 and 62)
	EARLIEST DATE OF NEXT REGULAR INSPECTION	09/01/2019	
		/ /	
10	MINIMUM V.C. OVER DECK (ROADWAY + SHOULDERS)	99 FT. IN.	9 EXCELLENT CONDITION
520	MINIMUM V.C. OVER DECK (EXCLUDES SHOULDERS)	99 FT. IN.	8 VERY GOOD CONDITION - NO PROBLEMS NOTED.
36	TRAFFIC SAFETY FEATURES		7 GOOD CONDITION - SOME MINOR PROBLEMS.
	Br. Rail Trans. Appr. Rail Terminal SPEED LIMIT	0 0 1 1 55	6 SATISFACTORY CONDITION - MINOR DETERIORATION OF STRUCTURAL ELEMENTS.
41	STRC OPEN/CLOSED/POSTED	A	5 FAIR CONDITION - ALL PRIMARY STRUCTURAL ELEMENTS ARE SOUND BUT MAY HAVE MINOR SECTION LOSS, CRACKING, SPALLING OR SCOUR.
	A K P		4 POOR CONDITION - ADVANCED SECTION LOSS, DETERIORATION, SPALLING OR SCOUR.
58	DECK	5	3 SERIOUS CONDITION - LOSS OF SECTION, DETERIORATION, SPALLING OR SCOUR HAVE SERIOUSLY AFFECTED PRIMARY STRUCTURAL COMPONENTS. LOCAL FAILURES ARE POSSIBLE. FATIGUE CRACKS IN STEEL OR SHEAR CRACKS IN CONCRETE MAY BE PRESENT.
59	SUPERSTRUCTURE	4	2 CRITICAL CONDITION - ADVANCED DETERIORATION OF PRIMARY STRUCTURAL ELEMENTS. FATIGUE CRACKS IN STEEL OR SHEAR CRACKS IN CONCRETE MAY BE PRESENT OR SCOUR MAY HAVE REMOVED SUBSTRUCTURE SUPPORT. UNLESS CLOSELY MONITORED IT MAY BE NECESSARY TO CLOSE THE BRIDGE UNTIL CORRECTIVE ACTION IS TAKEN.
60	SUBSTRUCTURE	5	1 "IMMINENT" FAILURE CONDITION - MAJOR DETERIORATION OR SECTION LOSS PRESENT IN CRITICAL STRUCTURAL COMPONENTS OR OBVIOUS VERTICAL OR HORIZONTAL MOVEMENT AFFECTING STRUCTURAL STABILITY. BRIDGE IS CLOSED TO TRAFFIC BUT CORRECTIVE ACTION MAY PUT IT BACK IN LIGHT SERVICE.
61	CHANL/CHANL PROTECTION	6	0 FAILED CONDITION - OUT OF SERVICE AND BEYOND CORRECTIVE ACTION.
62	CULVERT AND RETAIN WALL	N	
71	WATERWAY ADEQUACY	6	
72	APPROACH RDWY ALIGNMENT	8	
521	OVERALL CONDITION	POOR	
16	LATITUDE	17 LONGITUDE	
	N 35° 27.0317'	W 89° 26.3283'	
	/ /		
TEAM LEADER SIGNATURE		REVIEW DATE	

Bridge Loc. No: 38-SR001-02.13 Date: 10-31-17



BRIDGE NUMBER



LOOKING AHEAD ON ROUTE

Bridge Loc. No: 38-SR001-02.13 Date: 10-31-17



RIGHT SIDE UP STREAM



VIEW ACROSS TOP OF DECK

Bridge Loc. No: 38-SR001-02.13 Date: 10-31-17



LEFT SIDE DOWN STREAM



LOOKING BACK ON ROUTE

Bridge Loc. No: 38-SR001-02.13 Date: 10-31-17



LEFT ELEVATION DOWN STREAM



RIGHT ELEVATION UP STREAM

Bridge Loc. No: 38-SR001-02.13 Date: 10-31-17



SPAN 1 BEAM "B"



SPAN 1 BEAM "A"

Bridge Loc. No: 38-SR001-02.13 Date: 10-31-17



SPAN 2 BEAM "H"



SPAN 2 BEAM "B"

Bridge Loc. No: 38-SR001-02.13 Date: 10-31-17



SPAN 2 BEAM "G"



SPAN 2 BEAM "H"

Bridge Loc. No: 38-SR001-02.13 Date: 10-31-17



SPAN 1 BEAM "I"



SPAN 2 BEAM "C"

Bridge Loc. No: 38-SR001-02.13 Date: 10-31-17



ABUTMENT 1



FRONT OF PIER

Bridge Loc. No: 38-SR001-02.13

Date: 10-31-17



ABUTMENT 2

BRIDGE INSPECTION REPORT

Form BIR 3.0
(Rev. 9-22-98)
DT-0069

Field Report No.: 24 Date: 10/31/17
Previous Report No.: 23 Date: 12/17/15
Co. Seq 01 Plans: YES () NO ()

Bridge No. 38SR0010001 Bridge Location No. 38 - SR001 - 0213
Eleven Digit No. Co. Route Log Mile OVER/UNDER PASS

HWY 79

MUDDY CREEK

Road Name

Feature Intersected

CITY

Year Constructed 1926 County Haywood Maint. Dist: 48 Maint. Resp: 02

Year Widened _____ Year Rehabilitated _____

Structure Name (If Named)

FEATURES

Wearing Surface Concrete () Timber () Asphalt (X) Depth 3 1/2" (in.)
Flared Width Yes () No (X) Median Width Open () None (X) Closed ()
Navigational Control Yes () No (X) Bridge Skew 90 ° LT () RT ()
Structure Type (Main Span) C. D. G. & Steel I-Beam
Structure Type (Appr. Spans) _____
No. Main Spans 2 No. Approach Spans _____
Maximum Span Length 33.0 (**. ft.)
Total Length 65.0 (**. ft.)

INSPECTORS

1. L Jones TL
2. Ferrell
3. Hayes
4. Little
5. Thomas
6. _____
7. _____
8. _____

WIDTHS (*. ft.)

Deck Out-to-Out 34.0
Roadway Curb/Curb 28.0
Roadway Rail/Rail _____
Sidewalk Rt. _____ Lt. _____
*Approach Roadway 24.0
*(Does Not Include Shoulders)
Approach Shoulder Rt. 4.0
Lt. 4.0

CLEARANCES

Min. Vertical Clearance over Deck _____ (ft.-in.)
Min. Vertical Under Clearance _____ (ft.-in.)
Min. Lateral Under Clearance Rt. _____ (*. ft.)
Min. Lateral Under Clearance Lt. _____ (*. ft.)

FRACTURE CRITICAL: _____
(If Yes, Include BIR 3.9)

NBIS Bridge Length (<25 ft.) _____ (ft.-in.)

UNDERWATER INSPECTION

To Be Performed By: _____ Date _____

DOT FIELD TEAM () CONTRACT DIVERS () NONE REQUIRED (X)

Change in Structural Condition: Yes () No (X) Major Repairs Made: Yes () No (X)

COMMENTS:

LATITUDE: N35 ° 27.0316

LONGITUDE: W89 ° 26.3283

G.P.S. Location

BRIDGE RATING: () () (X) ()

GOOD FAIR POOR CRITICAL

Supervising Bridge Inspector: _____

L Jones

PERFORMANCE EVALUATION

Time of Day Inspected 1:55 PM Weather Conditions Cloudy 50°
Vehicles Observed NORMAL TRAFFIC

LIVE LOAD BEHAVIOR

Substructure	YES	NO	Comments
Horiz./ Vert. Defl.	()	(X)	
Vibration	()	(X)	
Superstructure			
Horiz./ Vert. Defl.	()	(X)	
Vibration	()	(X)	

APPROACH

	Rating	Comments
Alignment	(G) F P C	
Slab	G F P C	N/A
Joints	G F P C	N/A
Pavement	G (F) P C	Fine to 1/4" cracks & patch areas
Embankment	(G) F P C	
Drains	G F P C	N/A

TRAFFIC SAFETY FEATURES

	Rating	STANDARD/ SUB-STANDARD	Comments
Bridgerailing	(G) F P C	() (X)	
Transitions	(G) F P C	() (X)	
Guardrail	(G) F P C	(X) ()	
Guardrail Terminal	(G) F P C	(X) ()	

SIGNING

	YES	NO	NEEDED	Weight Limit Posted
Paddleboards	(X)	()	()	YES () NO (X)
Vertical Clearance (<14'-6")	()	(X)	()	Gross..... Tons
NARROW ()	()	(X)	()	2 Axle..... N/A Tons
ONE LANE BRIDGE ()	()	(X)	()	3 or more Axles.. Tons

Other Signs or Plaques: _____

Comments Regarding any Problems with Signing: _____

Form BIR 3.2
(Rev. 9-22-98)
DT-0081

Bridge Location No. 38 - SR001 - 2.13 -
Co. Route Log Mile

Date 10/31/17

DECK

	Rating	Comments
Wearing Surface	G <u>F</u> P C	
Deck - Structural Condition	G <u>F</u> P C	
Curbs	G <u>F</u> P C	
Median	G F P C	
Sidewalks	G F P C	
Parapet	G F P C	
Railing + Post	<u>G</u> F P C	
Paint	G F P C	
Drains	G F <u>P</u> C	Span #1 & 2 75% Fill with debris (043)
Lighting Standards	G F P C	
Utilities	G F P C	
Joint Leakage	G F P C	
Expansion Joints	G F P C	

SUPERSTRUCTURE

Bearing Devices	G F P C	
Beams <u>SIB</u>	G F <u>P</u> C	Span #1 SIB A.R.H.I span #2 R.E.H (244)
Girders	G F <u>P</u> C	Span #2 CEG (096)
P C C S	G F P C	
BOLTS (PCCS)	G F P C	
Floor Beams	G F P C	
Stringers	G F P C	
Diaphragms	<u>G</u> F P C	
Bracing	G F P C	
Trusses - General	G F P C	
Portals	G F P C	
Bracing	G F P C	
Paint	G F <u>P</u> C	50% MISSING ON SIB (071)
Alignment of Members	<u>G</u> F P C	

TEXTURE COAT

Condition Rating G F P C
Overall Appearance G F P C
Staining Rating G F P C

Fading G F P C
Needs Spot Painting YES (X) NO ()
Needs Repainting YES () NO ()

Comments _____ Scaling Rating G F P C
RECOMMENDATIONS: _____ CLEAN SEAL JOINTS ()
_____ CLEAN DRAINS (X) (043)

SUBSTRUCTURE

PILES TO BE
REPLACED

ABUTMENTS

	Rating	Comments	PILE(S)	ABUTMENT
Caps	G F P C			
Breastwall	G <u>F</u> P C			
Wings	<u>G</u> F P C			
Backwall	G <u>F</u> P C			
Plumb	<u>G</u> F P C			
Footing	G F P C	N/A		
Piles	G F P C	N/A		
Embankment	<u>G</u> F P C			
Bearing	G F P C	N/A		
Slope Paving <i>Veg</i>	G F <u>P</u> C	heavy in General		(204)
Rip Rap	G F P C			
Earthquake Devices	G F P C			

PIERS

			PILE(S)	PIER
Caps	G <u>F</u> P C			
Columns	G F P C			
Plumb	<u>G</u> F P C			
Footings	G F P C			
Piles	G <u>F</u> P C			
Bearing	G F P C			
Web	G <u>F</u> P C			
Earthquake Devices	G F P C			

BENTS

			PILE(S)	BENT
Caps	G F P C			
Columns	G F P C			
Plumb	G F P C			
Footings	G F P C	N/A		
Piles	G F P C			
Bearing	G F P C			
Bracing	G F P C			
Earthquake Devices	G F P C			

Piles Need Replacement: NO (☒) YES ()
CUT VEGETATION NO () YES (☒ 204)
CLEAR DRIFT NO (☒) YES ()

RECOMMENDATIONS:

STREAM CHANNEL DATA AND CONDITIONS

Stream Crossing: MUDDY CREEK

- I. 1. Type of bed material? CLAY, SILT & SAND
2. Has channel shifted? YES () NO (X) NOT APPARENT ()
3. Condition of rip-rap? G F P C Est. % failed _____ % N/A (X)
4. Overall condition of channel? G (P) P C
5. Item 61 - Code values 0 thru 9 according to the recording
and coding guide currently in effect: 6
6. Underwater diver inspection recommended? YES () NO (X)
If yes, why? _____
- II. Channel and bank stability conditions: (check if applicable)
1. Steep bank conditions: - Failures upstream () Failures downstream ()
2. Moderate bank erosion (X)
3. Bank vegetation: a. low growth (X) b. large timber (X) c. clear banks ()
d. dead trees upstream (X) e. dead trees downstream (X)
4. Sediment or gravel accumulation: YES () NO (X) UNKNOWN ()
5. Channel altered or straightened: YES () NO (X) UNKNOWN ()
6. Stable conditions: a. live growth (X) b. bedrock ()
c. boulders () d. flat slopes ($\leq 2:1$) ()
- III. Waterway adequacy and debris characteristics: (check if applicable)
1. Bridge deck elevations:
a. level with approach roadway. (X)
b. higher than approach roadway. ()
c. roadway approach ≥ 2 ft. above natural ground line. (X)
2. Abutment encroaches into channel. ()
3. Large scour (blowhole) under bridge. ()
4. Indications that flood waters overtop bridge:
NO (X) YES () OCASSIONALLY () FREQUENTLY () UNKNOWN ()
5. Debris characteristics:
a. debris/drift present YES (X) NO ()
b. debris/drift likely to accumulate YES (X) NO ()
c. dead trees upstream (X) dead trees downstream (X)

IV. Comments: _____

SPECIAL INSPECTION DATA - FOR REASONS OTHER THAN FC OR SCOUR

- I. Does this bridge need a special inspection? YES () NO (X)
II. Reason for special inspection: _____

Inspection Team's Summary
Bridge Location No. 38 - SR001 - 02.13
Inspection Date 10 - 31 - 17
Bridge Rating POOR

THIS IS A 2 SPAN CONCRETE DECK GIRDER & STEEL I BEAM BRIDGE IN FAIR CONDITION

SUBSTRUCTURE IS CONCRETE

TRAFFIC SAFETY FEATURES CONSIST OF 4 PADDLE BOARDS, METAL APPROACH RAILS & METAL BRIDGE RAILS

A/C APPROACH PAVEMENT HAS FINE TO ¼" CRACKS & PATCHED AREAS

A/C WEARING SURFACE HAS FINE TO ¼" CRACKS & A HOLE BETWEEN SLABS

BOTTOM DECK HAS FINE CRACKS WITH EFFLORESCENCE STAINS & SPALL TO STEEL AREAS

SPAN # 1 STEEL I BEAMS "A, B, H & I" & SPAN # 2 STEEL I BEAMS "B & H" HAS HEAVY CORROSION & SECTION LOSS

SPAN # 2 CONCRETE DECK GIRDERS "C & G" HAS SPALL TO STEEL AREAS

PAINT IS 50% MISSING ON STEEL I BEAMS

SUBSTRUCTURE HAS HAIRLINE CRACKS & SPALL AREAS

VEGETATION IS HEAVY IN GENERAL

NO PROBLEMS WITH SCOUR

LEONARD JONES

INSPECTOR

CROSS SECTION: YES (X) NO () BRM: YES (X) NO ()

N/C

GROUND ELEVATIONS

LS
N/C
10/31/17

OCT 31 2017

FEDERAL NUMBER ----- 38SR0010001

BRIDGE NO. ----- 38 - SR001 - 2.13

DATE : N/C 5/01/08
8/14/2000

CROSSING ----- MUDDY CREEK

NUMBER OF PIERS ----- 1

LOCATION OF PIERS ----- 32

BENCH MARK ELEV. ----- 104.9

INSPECTORS

BENCH MARK LOC. ---- TOP CAP RT A-1

WILLIAMS CREW

WATER ELEVATION -----

Jones crew

DISTANCE OF 0.00 = TOP OF BANK APPROACH 1 SIDE

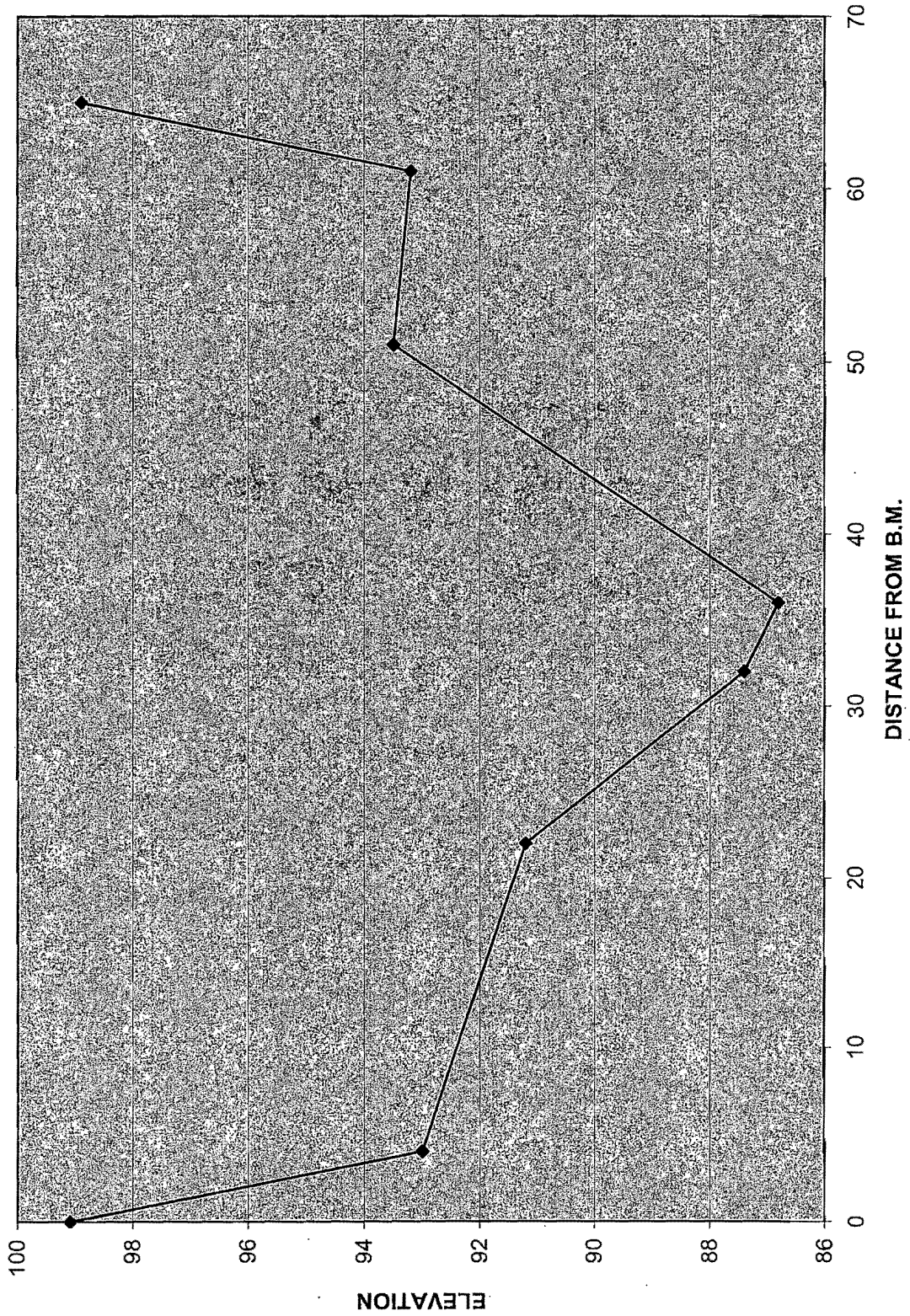
DISTANCE AND ELEVATIONS ARE IN STANDARD MEASUREMENT

UPSTREAM GROUND ELEVATION @ EDGE OF BRIDGE

8/14/2000	
Distance from B.M.	Elevation
0	99.1
4	93
22	91.2
32	87.4
36	86.8
51	93.5
61	93.2
65	98.9

OCT 31 2017

38SR0010001 UPSTREAM DRIPLINE



—◆— 8/14/2000
- - - N/C 5/01/08

OCT 31 2017

BRIDGE NO. -----

38 - SR001 - 2.13

DATE :

N/C 5/01/08

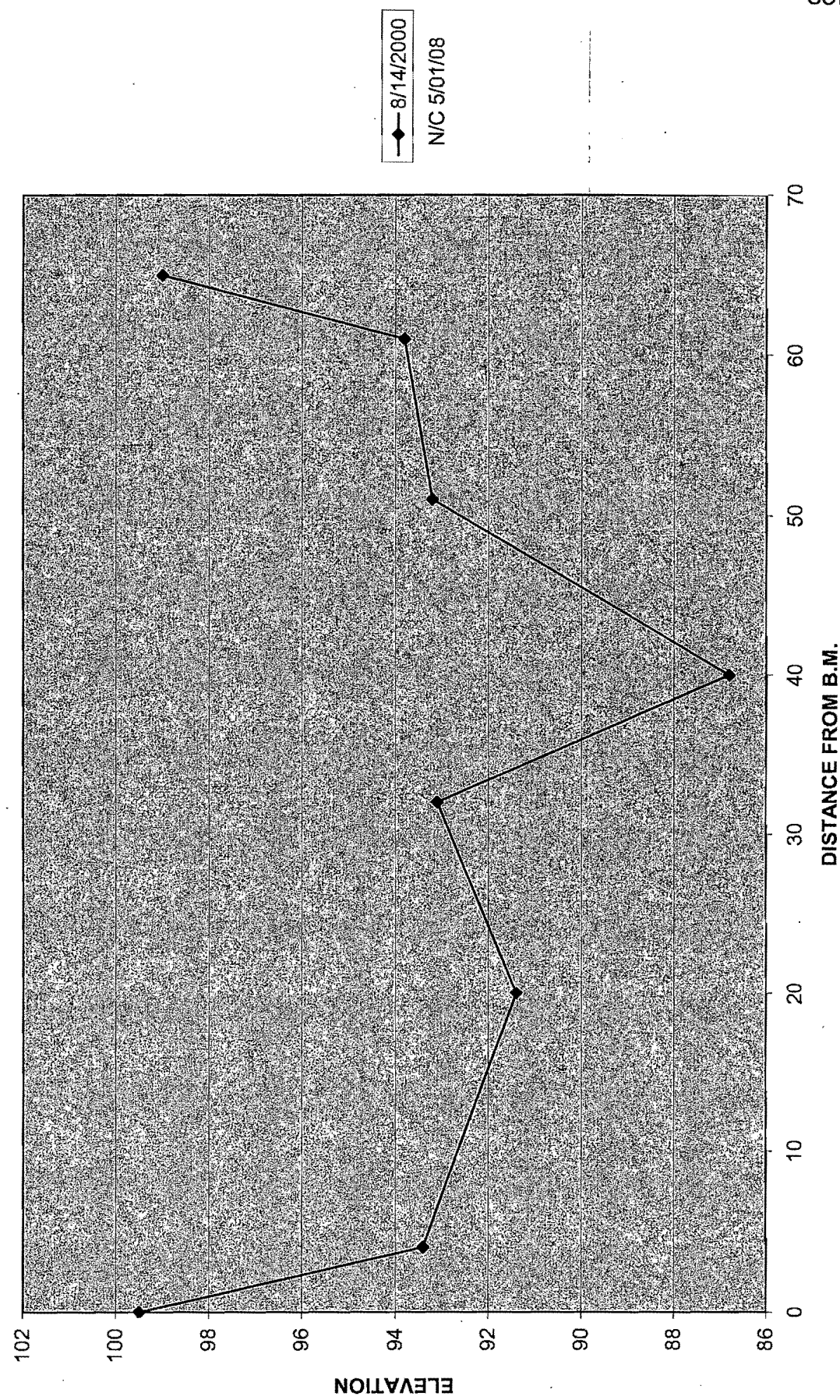
DOWNSTREAM GROUND ELEVATION @ EDGE OF BRIDGE

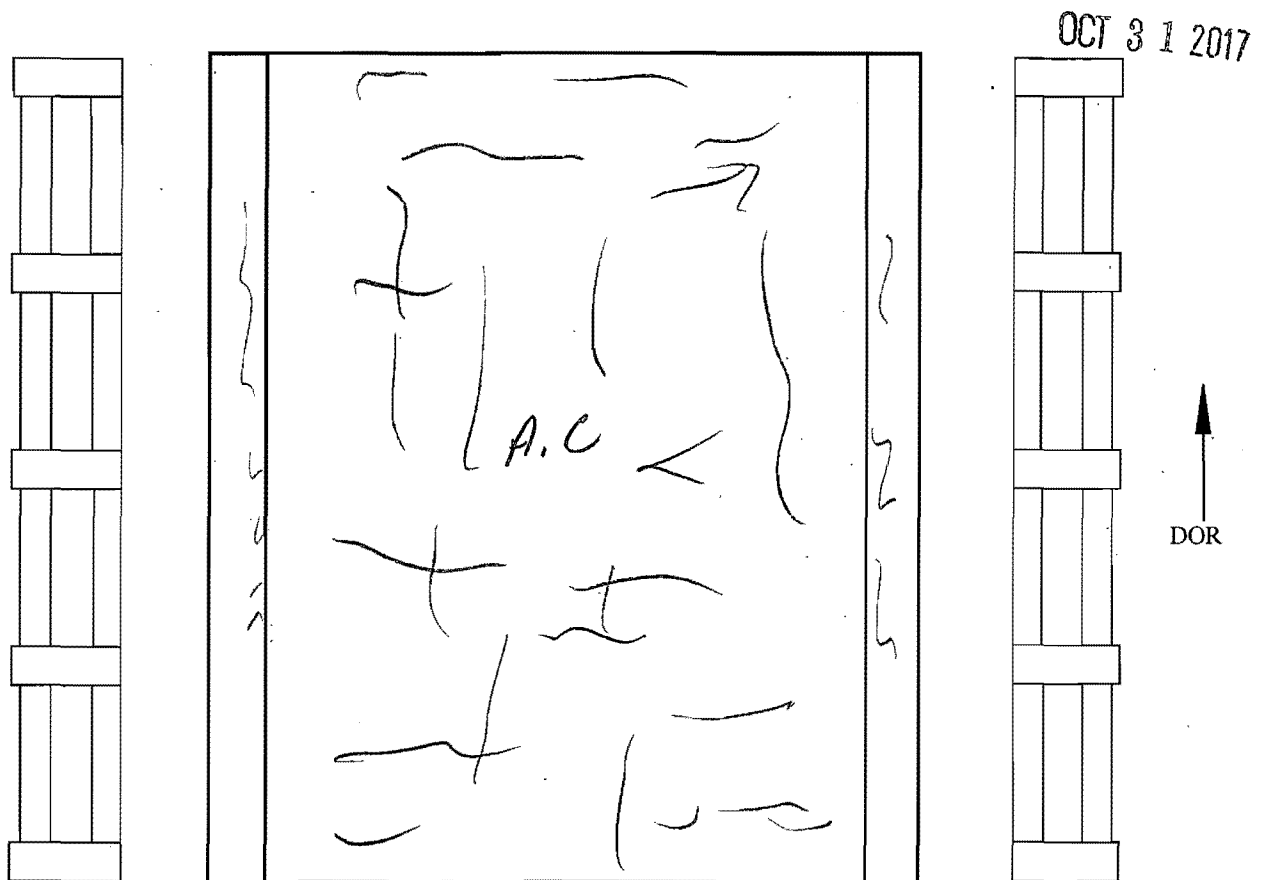
8/14/2000

Distance from B.M.	Elevation
0	99.5
4	93.4
20	91.4
32	93.1
40	86.8
51	93.2
61	93.8
65	99

OCT 3 1 2017

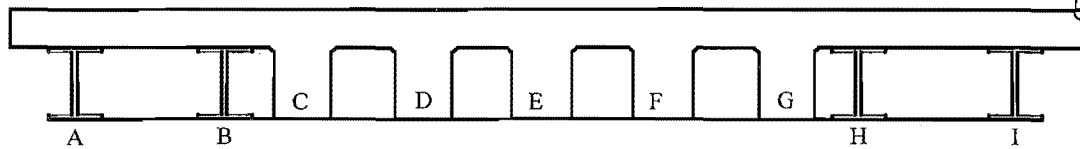
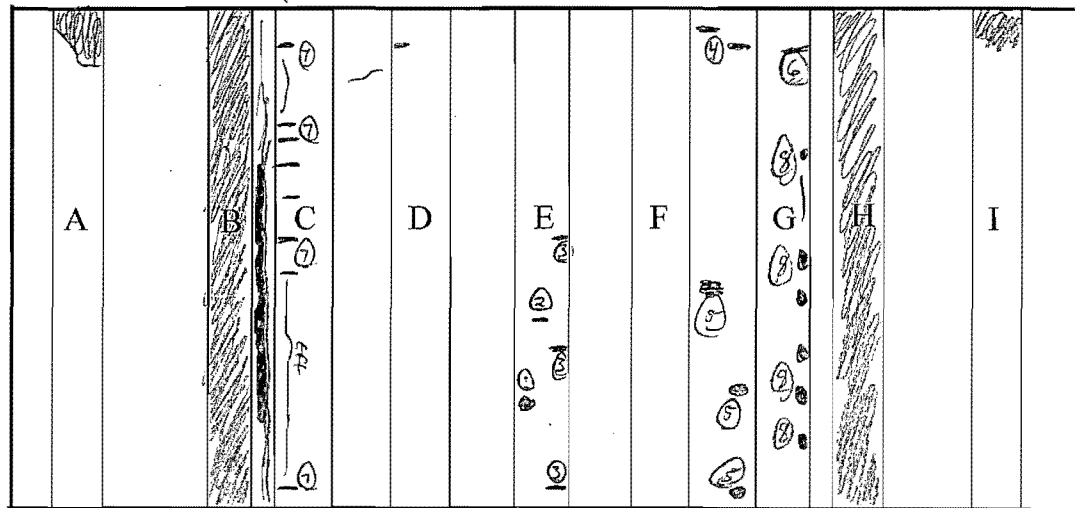
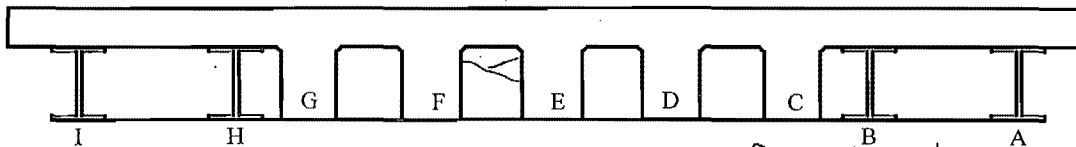
38SR0010001 DOWNSTREAM DRIPLINE





ELEMENT	RATING	COMMENT
TOP DECK	G <u>F</u> P C	Fine to 1/4" cracks & Light spalling
CURBS	G <u>F</u> P C	Light scaling
RAIL & POST ^{Metal} conc RAIL & Post	G <u>F</u> P C G <u>F</u> P C	
DRAINS	G <u>F</u> P C	75% Fill with debris
JOINT	G F P C	N/A
	G F P C	

OCT 31 2017

LOOKING AHEAD (4) before spall
8" diam.(7) spall/steel
2'4"x3"Lx1"D(3) spall/steel
8'4"x2"Lx1"D(5) spall & steel
1' diam. x 1"D

LOOKING BACK

(6) spall steel
6"Wx1'Hx3"Lx1"D(8) spall
6" diam. x 1"D

ELEMENT		RATING	COMMENT
BOTTOM DECK		G (F) P C	Fine cracks w/eff, spalling 18'Lx4"Wx3"D, (4), (5)
S.I.B.	A	G F (P) C	Heavy corrosion w/section loss, (see detail)
	B	G F (P) C	Heavy corrosion w/section loss, (see detail)
GIRDER	C	G (F) P C	(7) spall steel 2'4"x3"Lx1"D, fine cracks w/eff
	D	G (F) P C	spall steel 8'4"x3"Lx1"D
	E	G (F) P C	(1) spall 6" diameter x 1"D, (2) spall steel 6"Wx2'Lx1"D, (3)
	F	(G) F P C	
	G	G (F) P C	(6), (1), (8), fine crack w/eff
S.I.B.	H	G F (P) C	Heavy corrosion w/section loss (see detail)
	I	G F (P) C	Heavy corrosion w/section loss (see detail)
PAINT		G F (P) C	50% missing
BACKWALLS		G (F) P C	Fine cracks
DIA.		(G) F P C	

OCT 31 2017

BR. NO. 38-SR1-2.13

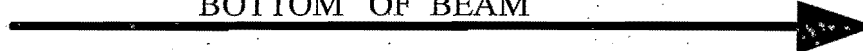
DATE 2/14/12

SPAN NO. L

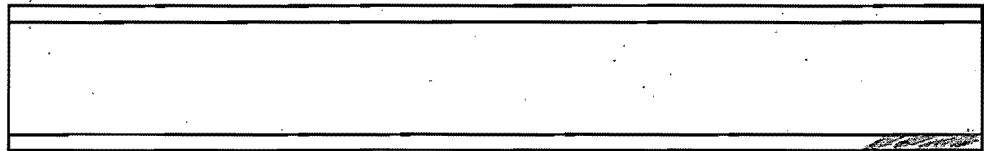
S.I.B. A



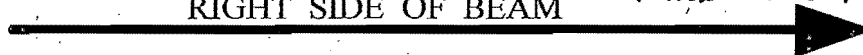
BOTTOM OF BEAM



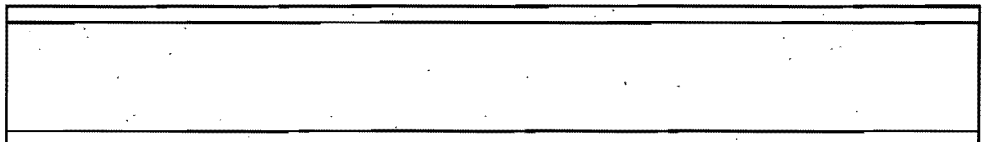
✓ E2 N/C 10/31/17



RIGHT SIDE OF BEAM



Section loss down to 1/8 in
Thickness 6' long starting
@ Din.



LEFT SIDE OF BEAM



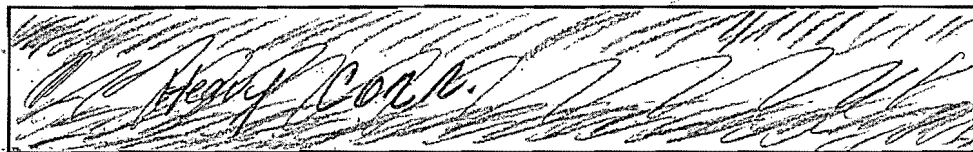
OCT 31 2017

BR. NO. 38 SR1-2.13

DATE 2/14/12

SPAN NO. 1

S.I.B. B

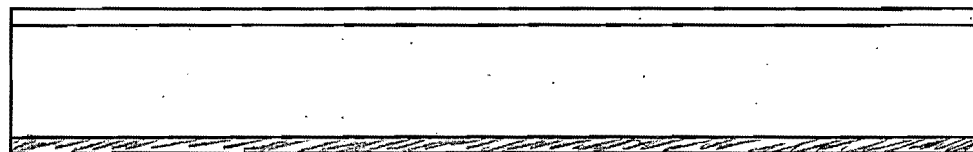


① Corc. 1/2" dia. 4' x 4' x 1/2" thick

BOTTOM OF BEAM



AE7 N/C 10/31/17

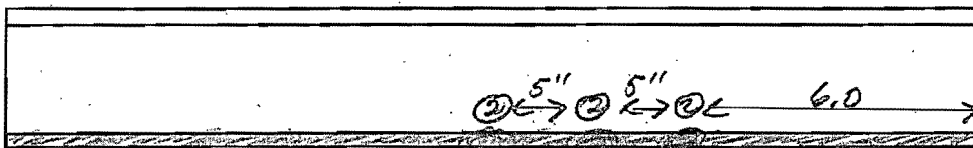


①

RIGHT SIDE OF BEAM



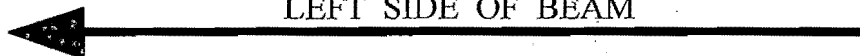
① Remaining Thickness of Flg. down to 1/8" Total
1/4" of span.



①

② Hole in Flg
2.5' x 1" W

LEFT SIDE OF BEAM



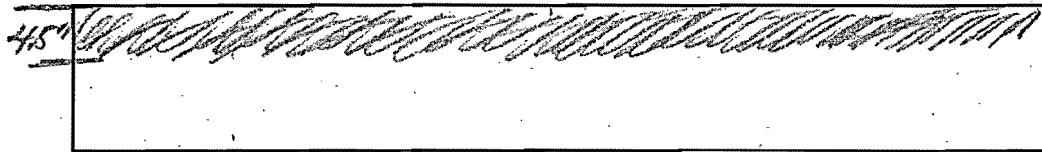
OCT 31 2017

BR. NO. 38-521-2.13

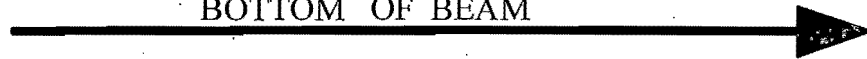
DATE 2/14/12

SPAN NO. 1

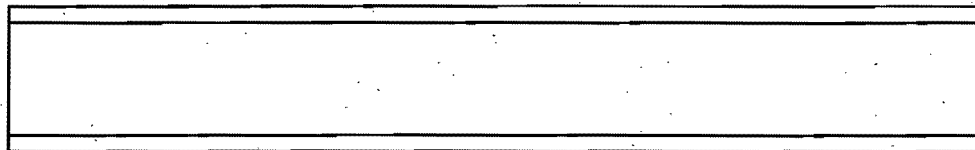
S.I.B. H



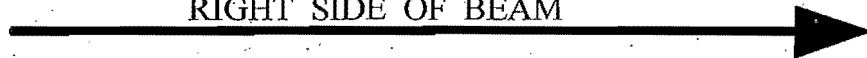
BOTTOM OF BEAM



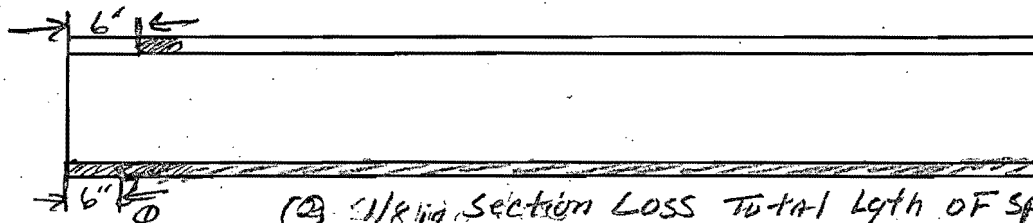
DEF N/C 10/31/17



RIGHT SIDE OF BEAM

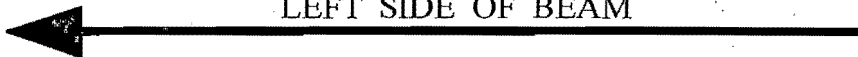


① Holes in Flg 3" W x 3" L x 6" From DIA.



② 1/8" Section Loss Total Lgth of Span.

LEFT SIDE OF BEAM



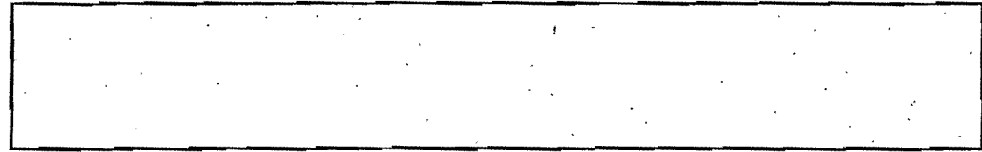
OCT 31 2017

BR. NO. 38-SR1-213

DATE 2/14/12

SPAN NO. 1

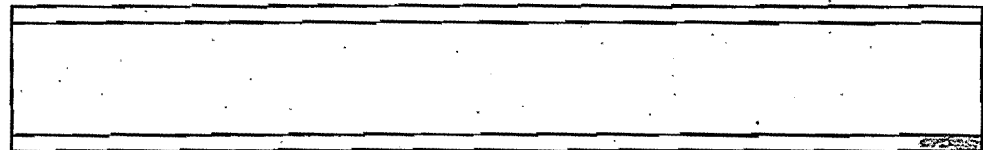
S. I. B. I



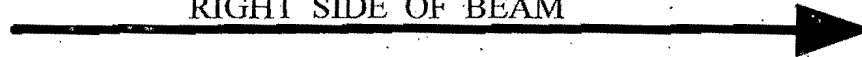
BOTTOM OF BEAM



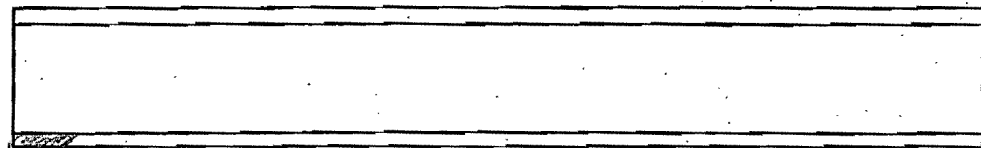
1/27 N/C 10/31/17



RIGHT SIDE OF BEAM



① 1/8 in. Section loss 18"/L



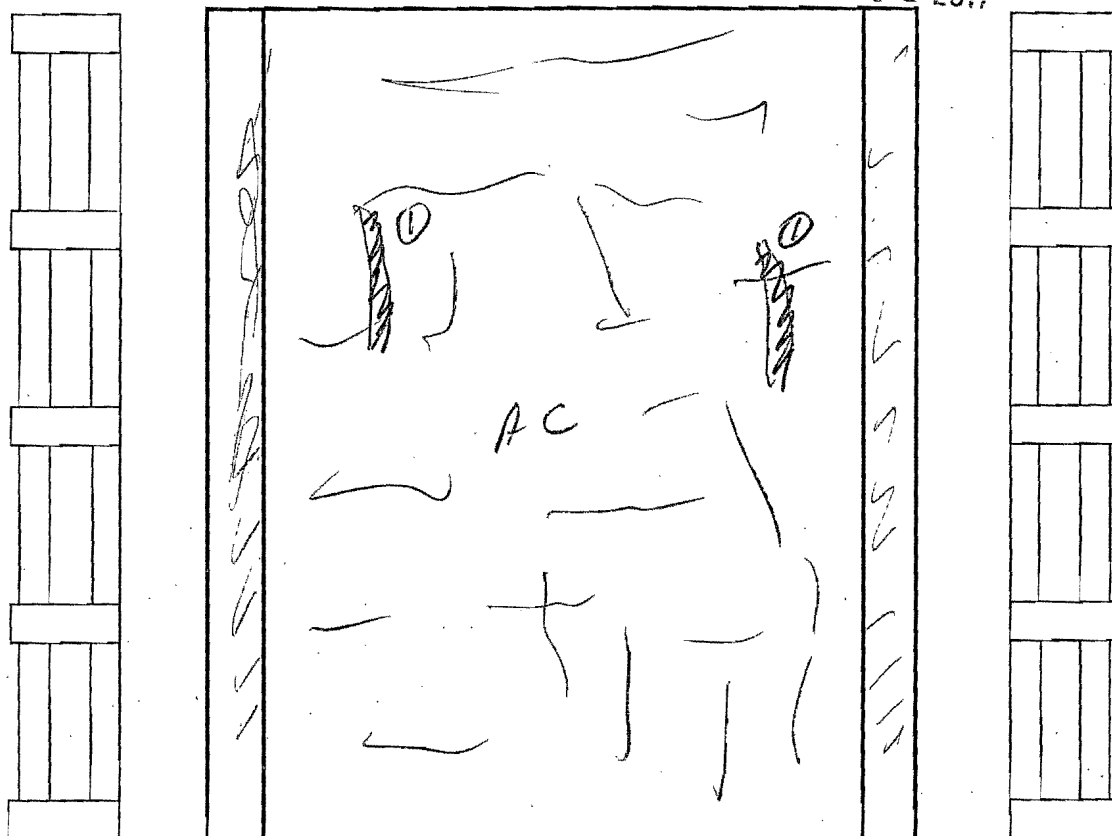
①

LEFT SIDE OF BEAM



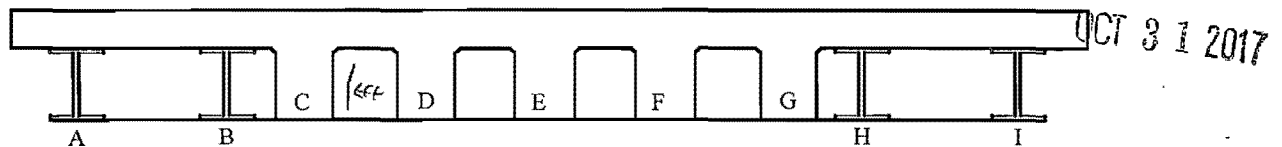
10/31/17

OCT 31 2017

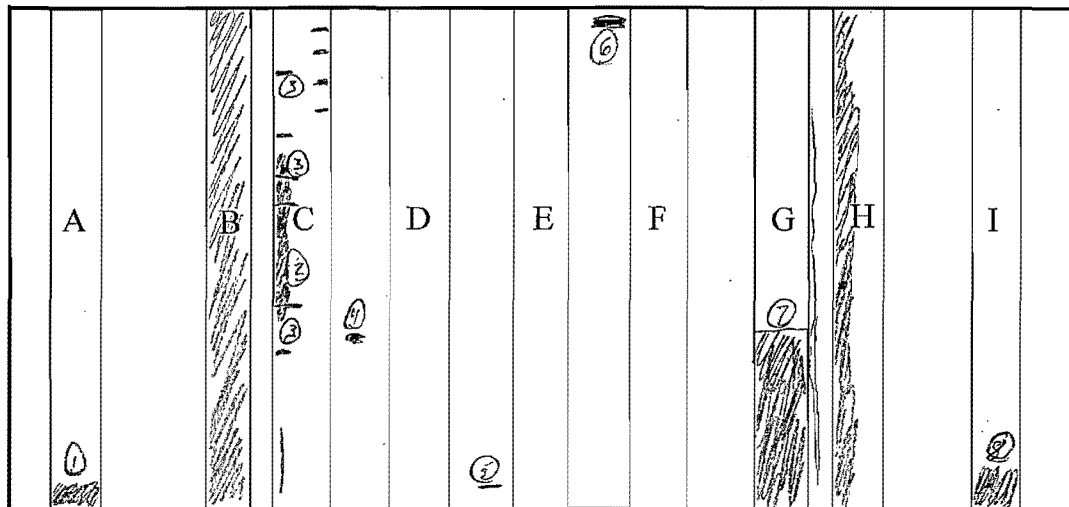


① Hole Thru AC bet slabs
1.0' x 1 1/2' w

ELEMENT	RATING	COMMENT
TOP DECK	G (F) P C	Fine to 1/4" cracks & see ①
CURBS	G (F) P C	Light scaling
RAIL & POST Metal	G F P C	
CMC RAIL & POST	G F P C	
DRAINS	G F (P) C	75% Fill with debris
JOINT	G F P C	N/A
	G F P C	



LOOKING AHEAD ⑥ before spall
2'W x 8" L

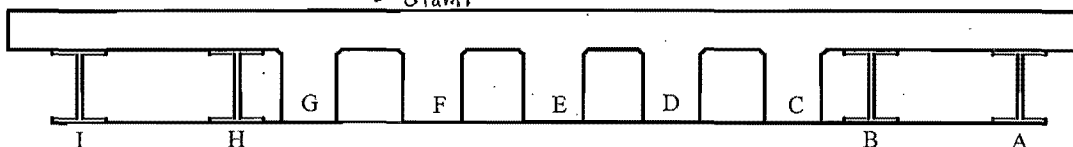


① Mod. corr.
minor sect. loss
8" L x 8" W

② spall steel
10' L x 8" W x 2" D
④ delam 6" diam.

⑤ spall steel
1' W x 2" L x 1" D

⑦ spall steel
10' L x 1' W x 3" D



③ spall steel
1' H x 3" L x 1" D

LOOKING BACK

⑧ Heavy corrosion
1/8" sect. loss
1' L x 1' W

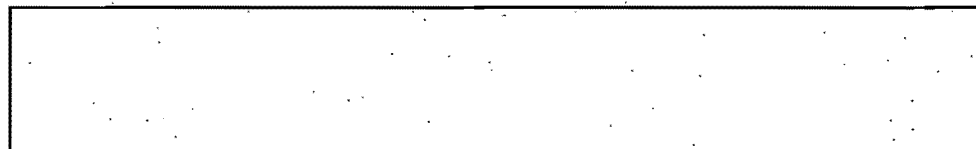
ELEMENT		RATING	COMMENT
BOTTOM DECK		G (F) P C	④, ⑤, ⑥, hairline cracks w/eff
S.I.B.	A	G (F) P C	①
	B	G F (P) C	Heavy corr. w/section loss (see detail)
GIRDER	C	G F (P) C	②, ③; fine crack
	D	(G) F P C	
	E	(G) F P C	
	F	(G) F P C	
	G	G F (P) C	⑦
S.I.B.	H	G F (P) C	Heavy corrosion w/section loss (see detail)
	I	G (F) P C	⑧
PAINT		G F (P) C	50% missing
BACKWALLS		G (F) P C	fine crack w/eff
DIA.		(G) F P C	

BR. NO. 38-SR 1-2.13

DATE 2/14/12

SPAN NO. 2

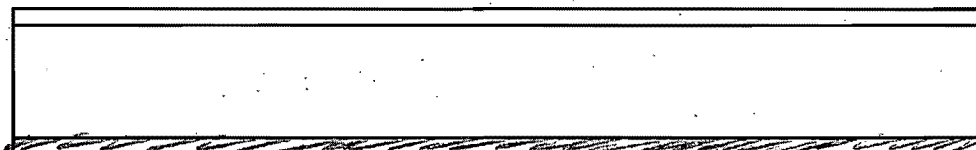
S.I.B. 8



BOTTOM OF BEAM

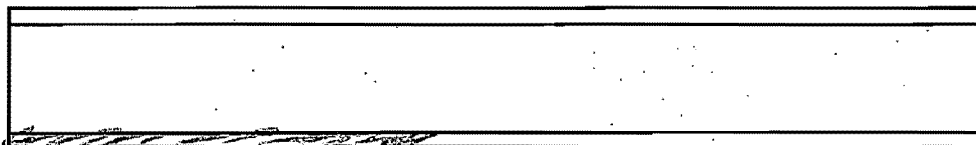


DET N/C 10/31/17



② Section Loss up to 1/8 in. Total Lgth of Span.

RIGHT SIDE OF BEAM



① Section Loss up to 1/8 in. 14 1/2.

LEFT SIDE OF BEAM

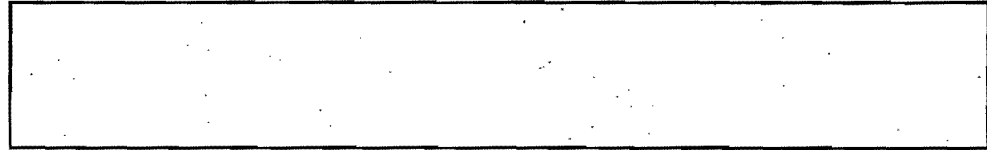


BR. NO. 38 - S 21 - 213

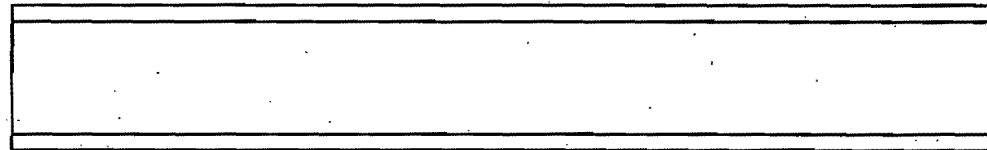
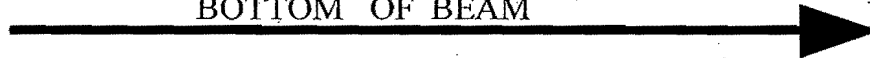
DATE 2/14/12

SPAN NO. 2

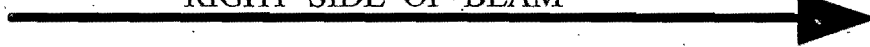
S. I. B. H



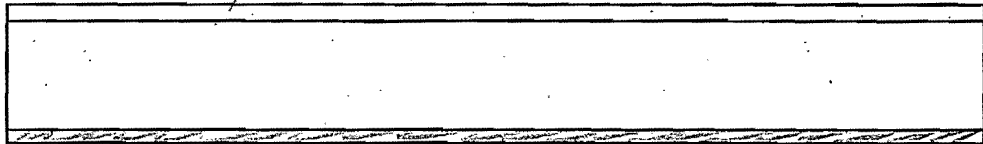
BOTTOM OF BEAM



RIGHT SIDE OF BEAM

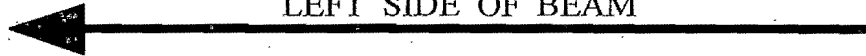


DET N/C 10/31/17



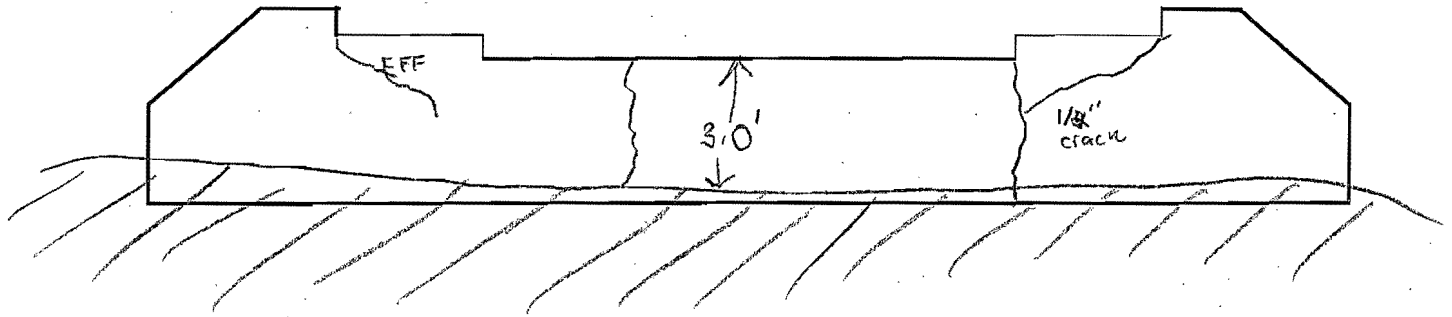
① Section Loss up to 1/8 in Total Lgth of SPAN.

LEFT SIDE OF BEAM



Date: _____

OCT 31 2017



LOOKING BACK

ELEMENT	RATING	COMMENT
BEARING	G F P C	N/V
PAINT	G F P C	
BREASTWALL	G <u>F</u> P C	1/2" cracking - hairline
WINGS	<u>G</u> F P C	
EMBANKMENT	<u>G</u> F P C	
RIP - RAP	G F P C	None
VEGETATION	G F <u>P</u> C	tree growth

BRIDGE NO. 38SR0010001**38 SR001 0213**

Co.: Route LogMile: L/R

DATE: _____

OCT 31 2017

TOTAL HEIGHT
(Top of Cap to Bottom of Ftg)14.6BENT/PIER NO. 1

FOOTING THICKNESS (T)

2SCOUR: G (F) P C

TOP OF CAP TO TOP OF FTG

12.6DRIFT G (F) P C

TOP OF CAP TO TOP OF WATER

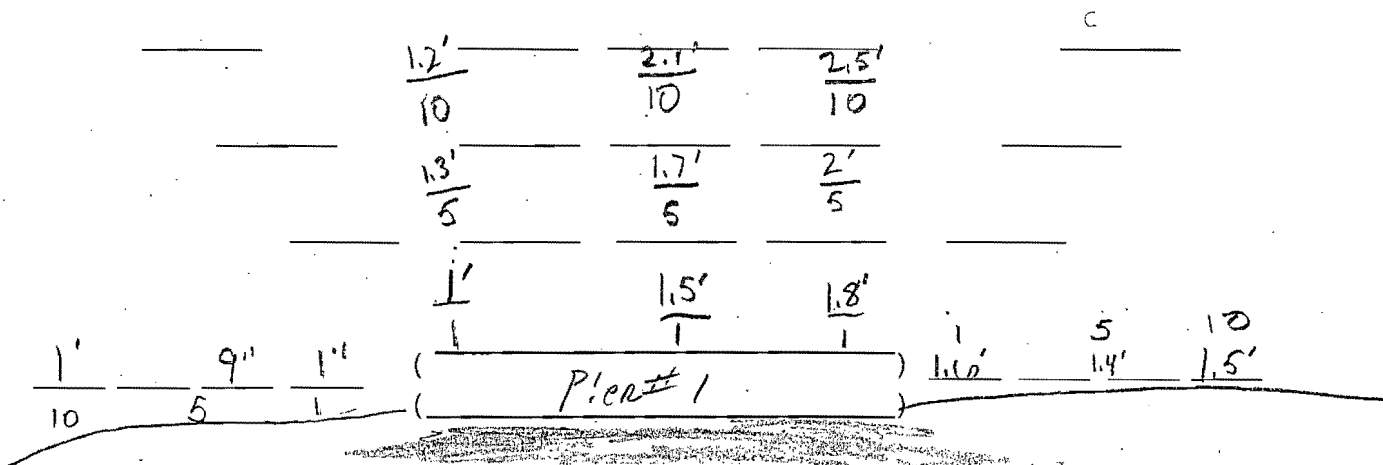
8.7'MAXIMUM EXPOSURE 10.5 @ 1' out

WATER DEPTH TO TOP OF FTG:

10.7 @ 5' out

DEPTH

DISTANCE

←
DIRECTION OF FLOW

BRIDGE NO. 38SR0010001**38 SR001 0213**

DATE: _____

Co.: Route LogMile: L/R

TOTAL HEIGHT

(Top of Cap to Bottom of Ftg)

14.6BENT/PIER NO. #1

FOOTING THICKNESS (T)

2SCOUR: G (F) P C

TOP OF CAP TO TOP OF FTG

(W / FTG @ H=)

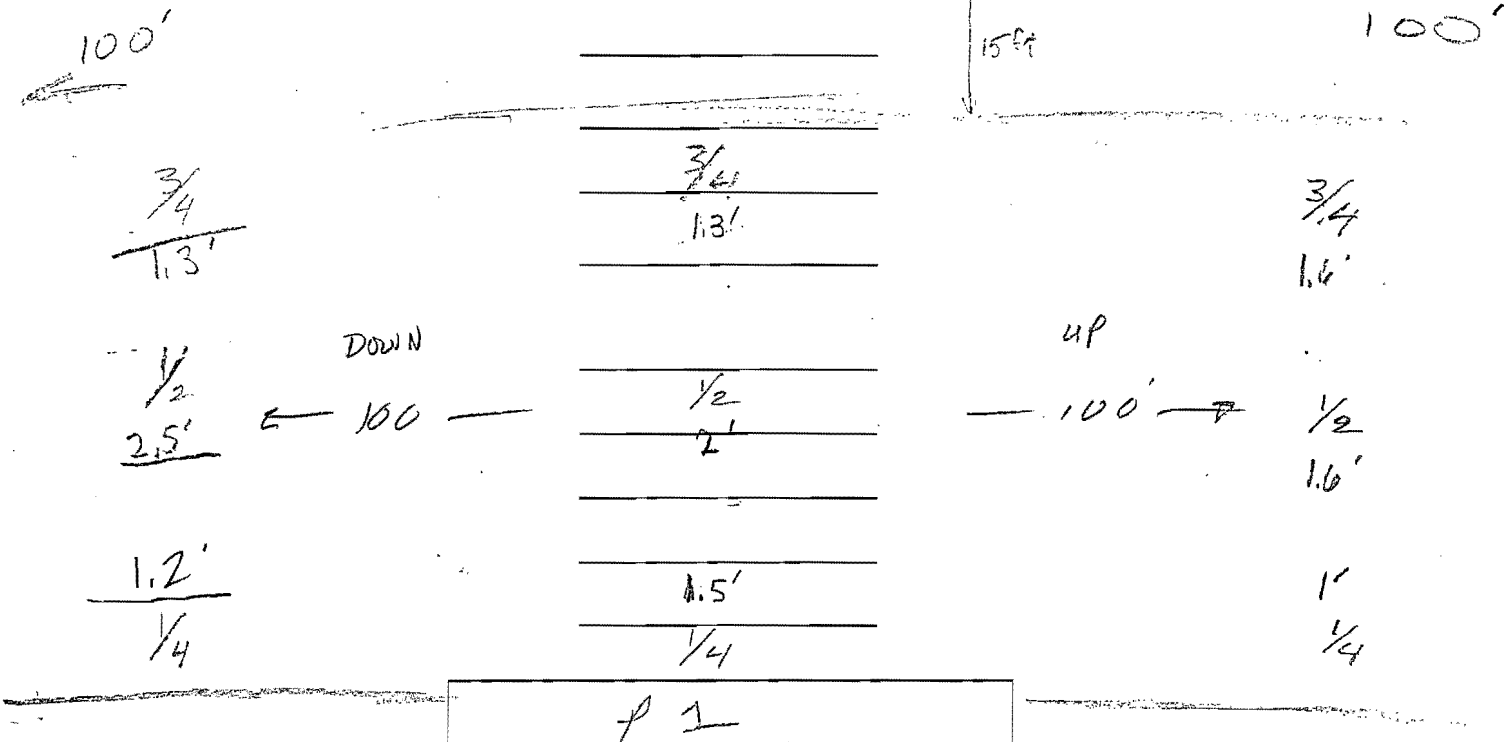
12.6DRIFT: G (F) P C

TOP OF CAP TO TOP OF WATER

8.7MAXIMUM EXPOSURE 11.2'

WATER DEPTH TO TOP OF FTG: _____

up 10.3'
Thru 10.9'
Down 11.2'

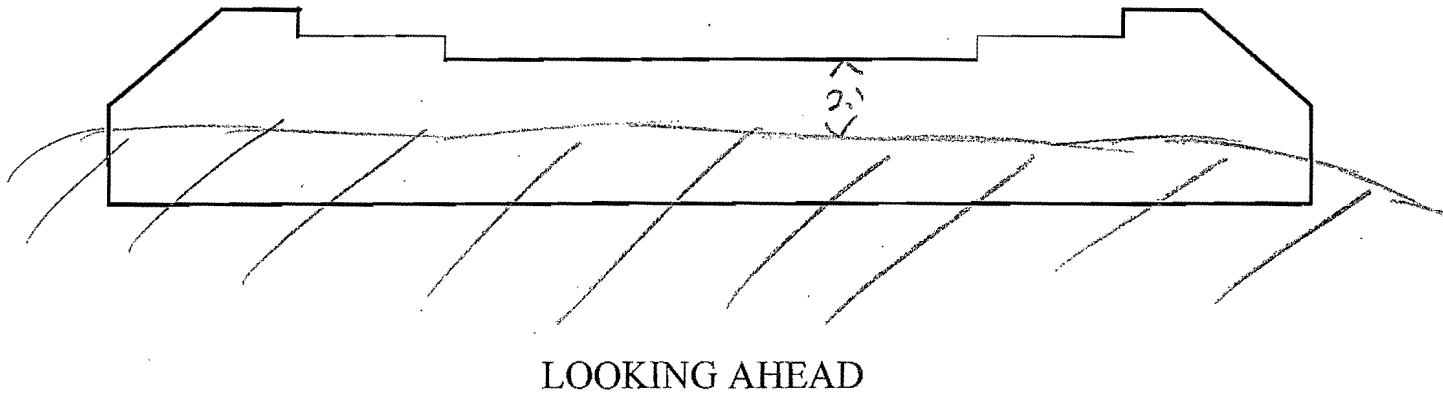


DEPTH / DISTANCE

SHOW DIRECTION OF FLOW

38 -- SR 1 -- 2.13 90
 Bridge No. Co. Route Log Mile R/L Skew

ABUT. NO. 2
 001 51 2017



ELEMENT	RATING	COMMENT
BEARING	G F P C	NV
PAINT	G F P C	
BREASTWALL	G F P C	
WINGS	G F P C	
EMBANKMENT	G F P C	
RIP - RAP	G F P C	None
VEGETATION	G F P C	light growth

38SR0010001 38 SR001 0213
BRIDGE NO.: CO. ROUTE L.M. L/R

SKEW: 90

No. of Spans: 2

No. of Approach Spans:

Direction of Route



PLAN VIEW

REQUIRED DATA

1.

F = FIXED

E = EXPANSION

2.

S = SIMPLE

C = CONTINUOUS

