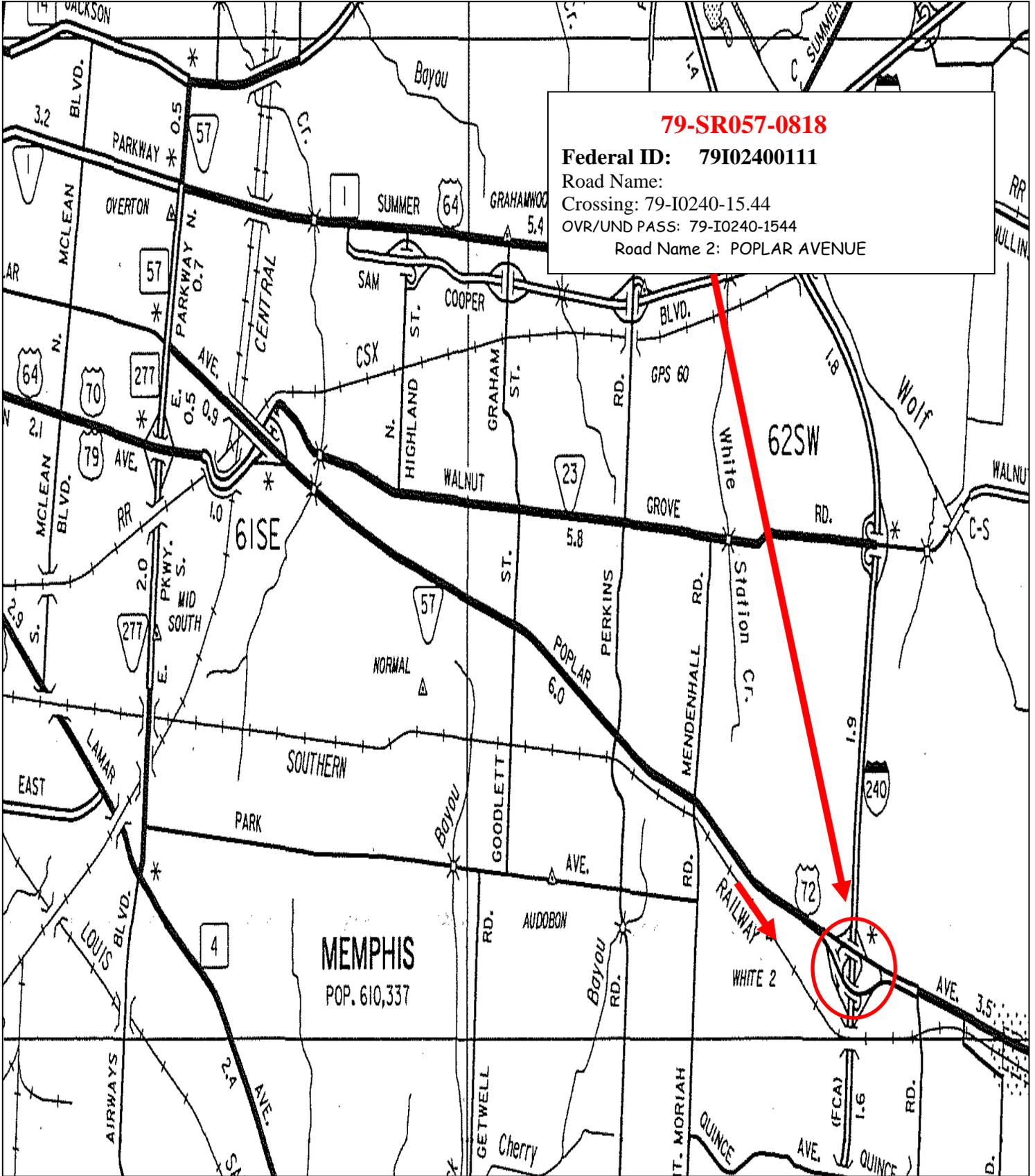


SHELBY COUNTY



79-SR057-0818

Federal ID: 79I02400111

Road Name:

Crossing: 79-I0240-15.44

OVR/UND PASS: 79-I0240-1544

Road Name 2: POPLAR AVENUE

BRIDGE MAINTENANCE RECOMMENDATIONS



Tennessee Department
of Transportation

COUNTY: SHELBY
LOCATION: 79-SR057-08.18-R
CO. SEQ.: 1 SPEC. CASE: 0

CROSSING: I240
FED. BRIDGE NO.: 79I02400111
MAINT. DIST.: 79

REPAIR LIST NO.: 2
DATE ADDED: 11/05/2004
REVISED: 03/04/2013

FACILITY CARRIED:	FAU 57 EB	NUMBER OF MAIN SPANS:	4
HIGHWAY SYSTEM:	13-NHS URBAN, STATE SYS.	NUMBER OF APPROACH SPANS:	0
BRIDGE WIDTH (CURB TO CURB):	53 FT 9 IN	BRIDGE LENGTH (FT):	243
BRIDGE WIDTH (OUT TO OUT):	59 FT 8 IN	MAXIMUM SPAN LENGTH (FT):	79
APPROACH ROADWAY (W/SHOULDERS):	60 FT 0 IN	SKEW ANGLE (DEGREES):	69
MAINTAINED BY:	STATE HIGHWAY AGENCY		
MAIN SPAN MATERIAL:	PRESTRESSED CONCRETE		
MAIN SPAN DESIGN TYPE:	STRINGER/MULTI-BEAM OR GIRDER		
APPROACH SPAN MATERIAL:	OTHER OR NOT APPLICABLE		
APPROACH SPAN DESIGN TYPE:	OTHER OR NOT APPLICABLE		
INSPECTION DATE:	03/04/2013	GENERAL CONDITION:	POOR
EVALUATION DATE:	04/19/2011	STRUCTURALLY DEFICIENT:	YES
PPRM PIN NUMBER:		SUFFICIENCY RATING:	63.9
H TRUCK RATING @ INV.:	20 TONS		

SUGGESTED ROUTINE MAINTENANCE AND COMMENTS
REPAIR CONCRETE BEAM "G" SPAN NO.1
REPAIR DIAPHRAGMS IN SPAN NO.2
REPLACE CONCRETE RISER BLOCKS AT BENT NO.1
CLEAN AND SEAL ROADWAY EXPANSION JOINTS.

GENERAL COMMENTS:
03-04-2013 UNDERPASS IS UNDER CONSTRUCTION. ABUTMENT # 1 EARTHQUAKE DEVICES NOT CONNECTED.

Photographs

Bridge ID#: 79-SR057-08.18

Date: 03/04/2013



DIRECTION OF ROUTE



APPROACH 1 ASPHALT

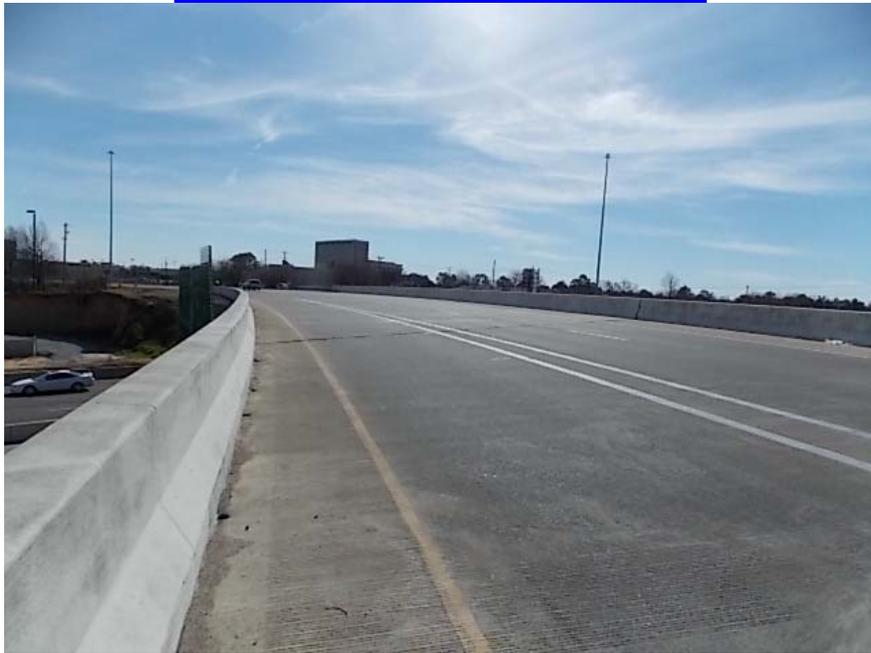
Photographs

Bridge ID#: 79-SR057-08.18

Date: 03/04/2013



SPAN 1 CONCRETE TOP DECK PATCHED



VIEW ACROSS DECK

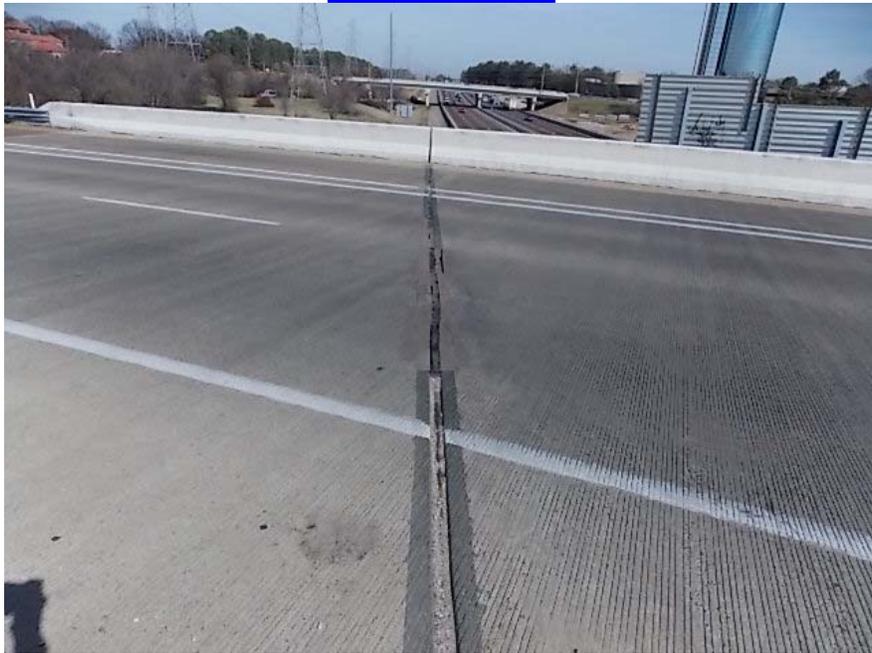
Photographs

Bridge ID#: 79-SR057-08.18

Date: 03/04/2013



BRIDGE NUMBER



SPAN 1 JOINT

Photographs

Bridge ID#: 79-SR057-08.18

Date: 03/04/2013



SPAN 1 JOINT SPALLING



SPAN 2 LEFT BRIDGE MOUNT SIGN NUMBER

Photographs

Bridge ID#: 79-SR057-08.18

Date: 03/04/2013



SPAN 2 JOINT



SPAN 3 JOINT

Photographs

Bridge ID#: 79-SR057-08.18

Date: 03/04/2013



SPAN 3 RIGHTSIDE BRIDGE MOUNT SIGN NUMBER



APPROACH 2 ASPHALT

Photographs

Bridge ID#: 79-SR057-08.18

Date: 03/04/2013



OPPOSITE DIRECTION OF ROUTE



SPAN 3 BRIDGE MOUNT SIGN

Photographs

Bridge ID#: 79-SR057-08.18

Date: 03/04/2013



ABUTMENT 2 SLOPE PAVING MISSING



ABUTMENT 2

Photographs

Bridge ID#: 79-SR057-08.18

Date: 03/04/2013



BENT 3 REAR



BENT 2 REAR

Photographs

Bridge ID#: 79-SR057-08.18

Date: 03/04/2013



BOTTOM DECK SPAN 3



RIGHT ELEVATION SPAN 3

Photographs

Bridge ID#: 79-SR057-08.18

Date: 03/04/2013



LEFT ELEVATION



BENT 2 CAP SPALLING

Photographs

Bridge ID#: 79-SR057-08.18

Date: 03/04/2013



BENT 3 CAP BEGINNING TO SPALL



SPAN 4 BACKWALL SPALLING

Photographs

Bridge ID#: 79-SR057-08.18

Date: 03/04/2013



SPAN 4 BEAM A SPALLING



SPAN 4 BEAM B SPALLING

Photographs

Bridge ID#: 79-SR057-08.18

Date: 03/04/2013



SPAN 4 BEAM C SPALLING



SPAN 4 BEAM D SPALLING

Photographs

Bridge ID#: 79-SR057-08.18

Date: 03/04/2013



SPAN 4 BEAM E SPALLING



SPAN 4 BEAM F SPALLING

Photographs

Bridge ID#: 79-SR057-08.18

Date: 03/04/2013



SPAN 4 BEAM G SPALLING



SPAN 4 BEAM H SPALLING

Photographs

Bridge ID#: 79-SR057-08.18

Date: 03/04/2013



SPAN 4 BEAM I SPALLING



SPAN 2 LEFT BRIDGE MOUNT SIGNS

Photographs

Bridge ID#: 79-SR057-08.18

Date: 03/04/2013



LEFT ELEVATION SPAN 2



RIGHT ELEVATION SPAN 2

Photographs

Bridge ID#: 79-SR057-08.18

Date: 03/04/2013



BOTTOM DECK SPAN 2



BENT 1

Photographs

Bridge ID#: 79-SR057-08.18

Date: 03/04/2013



BENT 1 CAP SPALLING



BENT 1 RISER BLOCKS SPALLING

Photographs

Bridge ID#: 79-SR057-08.18

Date: 03/04/2013



BENT 1 CAP SPALLING



SPAN 1 BEAM G SPALLING

Photographs

Bridge ID#: 79-SR057-08.18

Date: 03/04/2013



ABUTMENT 1 EQ PLATE MISSING



ABUTMENT 1

Photographs

Bridge ID#: 79-SR057-08.18

Date: 03/04/2013



ABUTMENT 1 BEARING UNDER BEAM A PLATE MISSING



ABUTMENT 1 PLATE NOT BOLTED TO BEAM F,H,I TIP

Photographs

Bridge ID#: 79-SR057-08.18

Date: 03/04/2013



SPAN 2 BEAM A SPALLING



SPAN 2 DIAPHRAGM SPALLING

Photographs

Bridge ID#: 79-SR057-08.18

Date: 03/14/2013



SPAN 2 BETWEEN CONCRETE I BEAM A&B SPALLED TO STEEL/DELAMINATED



SPAN 2 BETWEEN CONCRETE I BEAM A&B SPALLED TO STEEL/DELAMINATED

Photographs

Bridge ID#: 79-SR057-08.18

Date: 03/14/2013



SPAN 2 BETWEEN CONCRETE I BEAM A&B SPALLED TO STEEL/DELAMINATED



BRIDGE NUMBER

Photographs

Bridge ID#: 79-SR057-08.18

Date: 03/14/2013



SPAN 2 BETWEEN CONCRETE I BEAM B&C SPALLING AND DELAMINATED



SPAN 2 BETWEEN CONCRETE I BEAM C&D RANDOM SPALLED AREAS

Photographs

Bridge ID#: 79-SR057-08.18

Date: 03/14/2013



SPAN 2 BETWEEN CONCRETE I BEAM C&D RANDOM SPALLED AREAS



SPAN 2 BETWEEN CONCRETE I BEAM D&E DELAMINATED WITH NO SPALLING

Photographs

Bridge ID#: 79-SR057-08.18

Date: 03/14/2013



SPAN 2 BETWEEN CONCRETE I BEAM F&G SPALLED TO STEEL/DELAMINATED FIRST
1/3 OF SPAN



SPAN 2 BETWEEN CONCRETE I BEAM J&K SPALLED TO STEEL/DELAMINATED FIRST
1/3 OF SPAN

Photographs

Bridge ID#: 79-SR057-08.18

Date: 03/14/2013



SPAN 2 LAST/3RD IF SPAN BETWEEN CONCRETE I BEAM H&I BEGINNING TO SPALL WITH EFFLORESCENCE



SPAN 3 LAST/3RD IF SPAN BETWEEN CONCRETE I BEAM A&B SPALLED TO STEEL/DELAMINATED

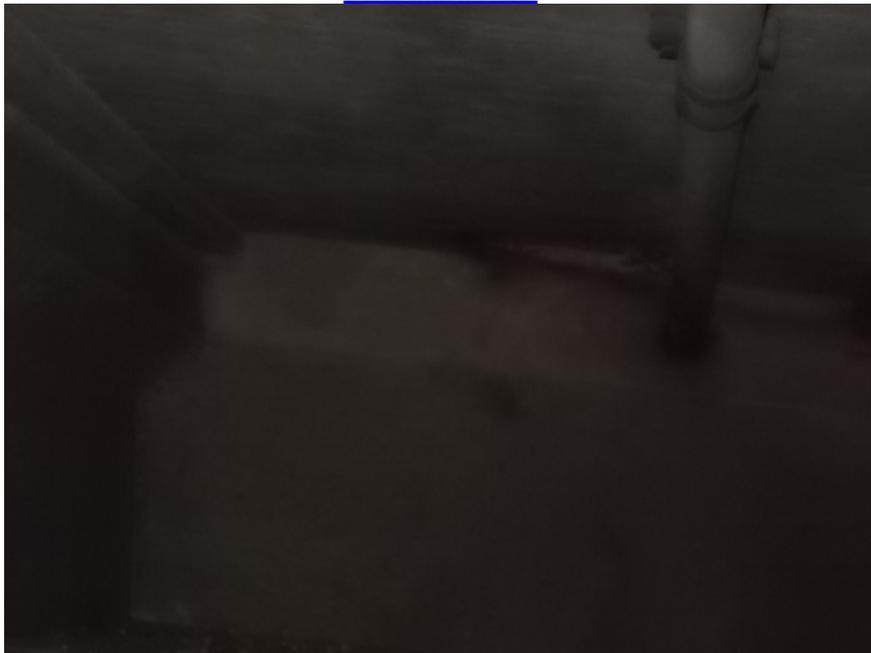
Photographs

Bridge ID#: 79-SR057-08.18

Date: 03/14/2013



SPAN 3 LAST/3RD IF SPAN BETWEEN CONCRETE I BEAM A&B SPALLED TO STEEL AND DELAMINATED



SPAN 3 LAST/3RD IF SPAN BETWEEN CONCRETE I BEAM A&B SPALLED TO STEEL AND DELAMINATED

Photographs

Bridge ID#: 79-SR057-08.18

Date: 03/14/2013



SPAN 3 LAST/3RD IF SPAN BETWEEN CONCRETE I BEAM A&B SPALLED TO STEEL AND DELAMINATED



SPAN 3 BETWEEN CONCRETE I BEAM E&F BOTTOM DECK PAINTED FOR DELAMINATION

Photographs

Bridge ID#: 79-SR057-08.18

Date: 03/14/2013



SPAN 3 BETWEEN CONCRETE I BEAM E&F BOTTOM DECK PAINTED FOR DELAMINATION



SPAN 3 BETWEEN CONCRETE I BEAM F&G BOTTOM DECK PAINTED FOR DELAMINATION

Photographs

Bridge ID#: 79-SR057-08.18

Date: 03/14/2013



SPAN 3 BETWEEN CONCRETE I BEAM J&K HAS PATCHED AREAS

MAR 04 2013

BRIDGE INSPECTION REPORT

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

Field Report No.: 21 Date: 3/4/13
Previous Report No.: 20 Date: 4/14/11
Co. Seq 01 Plans: YES (X) NO ()

Bridge No. 79I02400111 Bridge Location No. 79 - SR057 - 0818 79 - I0240 - 1544
Eleven Digit No. Co. Route Log Mile OVER/UNDER PASS

Road Name _____ Feature Intersected _____ CITY _____
Year Constructed 1960 County Shelby Maint. Dist: 45 Maint.Resp: 02
Year Widened _____ Year Rehabilitated _____
Structure Name (If Named) _____

FEATURES

Wearing Surface Concrete (✓) Timber () Asphalt () Depth _____ (in.)
Flared Width Yes () No (✓) Median Width Open () None (✓) Closed ()
Navigational Control Yes () No (✓) Bridge Skew --R ° LT () RT ()
Structure Type (Main Span) CONCRETE I. BEAM
Structure Type (Appr.Spans) _____
No. Main Spans 4 No. Approach Spans _____
Maximum Span Length 79.0 (**. * ft.)
Total Length 245.0 (**. * ft.)

INSPECTORS

1. LEWIS
2. LOVE
3. JONES
4. LEECH
5. C. YOUNG
6. _____
7. _____
8. _____

WIDTHS (*. * ft.)

Deck Out-to-Out 60.0
Roadway Curb/Curb 55.0
Roadway Rail/Rail _____
Sidewalk Rt. _____ Lt. _____
*Approach Roadway 48.0
*(Does Not Include Shoulders)
Approach Shoulder Rt. 3.0
Lt. 3.0

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

COMMENTS: NOTE: UNDERPASS IS UNDER CONSTRUCTION.

LATITUDE: N35 ° 6.1133
LONGITUDE: W89 ° 52.2216
G.P.S. Location

BRIDGE RATING: () () (✓) ()
GOOD FAIR POOR CRITICAL

Supervising Bridge Inspector: 

PERFORMANCE EVALUATION

Time of Day Inspected 10:05 AM Weather Conditions 52° SUNNY

Vehicles Observed ALL TYPES

LIVE LOAD BEHAVIOR

Substructure	YES	NO	Comments
Horiz./ Vert. Defl.	()	(<input checked="" type="checkbox"/>)	
Vibration	()	(<input checked="" type="checkbox"/>)	
Superstructure			
Horiz./ Vert. Defl.	()	(<input checked="" type="checkbox"/>)	
Vibration	()	(<input checked="" type="checkbox"/>)	

APPROACH

	Rating	Comments
Alignment	G <input checked="" type="radio"/> P C	
Slab	G F P C	<u>N/A</u>
Joints	G F P C	<u>N/A</u>
Pavement	G <input checked="" type="radio"/> P C	
Embankment	<input checked="" type="radio"/> F P C	
Drains	G F P C	<u>N/A</u>

TRAFFIC SAFETY FEATURES

	Rating	STANDARD/ SUB-STANDARD	Comments
Bridgerailing	G <input checked="" type="radio"/> P C	(<input checked="" type="checkbox"/> ()	
Transitions	<input checked="" type="radio"/> F P C	(<input checked="" type="checkbox"/> ()	
Guardrail	G <input checked="" type="radio"/> P C	(<input checked="" type="checkbox"/> ()	
Guardrail Terminal	<input checked="" type="radio"/> F P C	(<input checked="" type="checkbox"/> ()	

SIGNING

	YES	NO	NEEDED	Weight Limit Posted
Paddleboards	()	(<input checked="" type="checkbox"/>)	()	YES () NO (<input checked="" type="checkbox"/>)
Vertical Clearance (<14'-6")	()	(<input checked="" type="checkbox"/>)	()	Gross..... Tons
NARROW ()	()	(<input checked="" type="checkbox"/>)	()	2 Axle..... Tons
ONE LANE BRIDGE ()	()	(<input checked="" type="checkbox"/>)	()	3 or more Axles.. Tons

Other Signs or Plaques: _____

Comments Regarding any Problems with Signing: _____

DECK

	Rating	Comments
Wearing Surface	G <u>F</u> P C	_____
Deck - Structural Condition	G <u>F</u> P C	_____
Curbs	G F P C	_____
Median	G F P C	_____
Sidewalks	G F P C	_____
Parapet	G <u>F</u> P C	_____
Railing	G F P C	_____
Paint SIGNS	<u>G</u> F P C	_____
Drains	<u>G</u> F P C	_____
Lighting Standards	G F P C	_____
Utilities	G F P C	_____
Joint Leakage	G F P C	_____
Expansion Joints	G F <u>P</u> C	<u>SPAN #1 - HEADER SPALLED / MATERIAL TORN (031)</u>

SUPERSTRUCTURE

Bearing Devices	G F P C	_____
Beams (I, B)	G F <u>P</u> C	<u>SPAN #1 C.18 "G" SPALLED TO STEEL (244)</u>
Girders	G F P C	_____
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	G F <u>P</u> C	<u>SPAN #2 - SPALLED TO STEEL (086)</u>
Bracing	G F P C	_____
Trusses - General	G F P C	_____
Portals	G F P C	_____
Bracing	G F P C	_____
Paint EQ	G F <u>P</u> C	<u>SPAN #1 - NOT CONNECTED (?)</u>
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 () NO ()
Needs Repainting YES () NO ()

Comments _____ Scaling Rating G F P C

RECOMMENDATIONS: _____ CLEAN SEAL JOINTS ()

_____ CLEAN DRAINS ()

SUBSTRUCTURE

PILES TO BE REPLACED

ABUTMENTS

	Rating	Comments	PILE(S)	ABUTMENT
Caps	G <u>F</u> P C	_____	_____	_____
Breastwall	G F 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	_____	_____	_____
Piles RISER BLOCK	<u>G</u> F P C	_____	_____	_____
Embankment	<u>G</u> F P C	_____	_____	_____
Bearing	G F <u>P</u> C	ABUT #1 - PLATE & BOLTS MISSING (?)	_____	_____
Slope Paving	G F <u>P</u> C	ABUT #2 - SECTION MISSING (UNDER CONSTRUCTION) (195)	_____	_____
Rip Rap	G F P C	_____	_____	_____
Earthquake Devices	G F <u>P</u> C	ABUT #1 - NOT CONNECTED (?)	_____	_____

PIERS

	Rating	Comments	PILE(S)	PIER
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		_____	_____
Web	G F P C		_____	_____
Earthquake Devices	G F P C		_____	_____

BENTS

	Rating	Comments	PILE(S)	BENT
Caps	G <u>F</u> P C	_____	_____	_____
Columns	G <u>F</u> P C	_____	_____	_____
Plumb	<u>G</u> F P C	_____	_____	_____
Footings	G F P C	_____	_____	_____
Piles PARAPET	G <u>F</u> P C	_____	_____	_____
Bearing	<u>G</u> F P C	_____	_____	_____
Bracing RISER BLK	G F <u>P</u> C	BENT #1 - SPALLED UNDER BEARING (127)	_____	_____
Earthquake Devices	<u>G</u> F P C	_____	_____	_____

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

RECOMMENDATIONS: _____

Inspection Team's Summary
Bridge Location No 79 -SR057 - 08.18
Inspection Date 03/04/13
Bridge Rating POOR

THIS 4 SPAN CONCRETE I BEAM BRIDGE IS IN POOR CONDITION.
THE APPROACH PAVEMENT HAS FINE CRACKS AND A SPALL AREA.
THE CONCRETE WEARING SURFACE HAS FINE CRACKS.
THE JOINT HEADER ON SPAN 1 IS SPALLING AND MATERIAL TORN.
THE BOTTOM DECK HAS FINE CRACKS, PATCHED AREAS AND SPALL
TO STEEL AREAS.
SPAN 1 CONCRETE I BEAM(G) IS SPALL TO STEEL.
SPAN 4 CONCRETE I BEAM A-I AT END OF BEAMS ARE BEGINNING TO
SPALL.
SPAN 2 DIAPHRAGM SPALL TO STEEL.
THE CONCRETE SUBSTRUCTURE HAS FINE CRACKS, BEGINNING TO
SPALL AND SPALL TO STEEL.
ABUTMENT 2 SECTION OF SLOPEPAVMENT MISSING DUE TO
CONSTRUCTION, ABUTMENT 1 PLATE AND BOLT MISSING.
ABUTMENT 1 EQ NOT CONNECTED.
BENT 1 RISER CLOCK SPALLING UNDER CONCRETE I BEAM A&B, THE
VERTICAL CLEARANCE IS UNDER CONSTRUCTION.
SPAN 2&3 HAS WOODEN FORMS LEFT IN PLACE FOR POTENTIAL FOR
CONCRETE TO FALL ON TO ROADWALL.
BENT 2 CAP HAS SECTION BEGINNING TO SPALL THAT COULD FALL
INTO ROADWAY.
NOTE: BRIDGE IS RATED POOR DUE TO UNKNOWN CONDITION OF SPAN
2&3 BOTTOM DECK UNDER PLYWOOD FORMS.

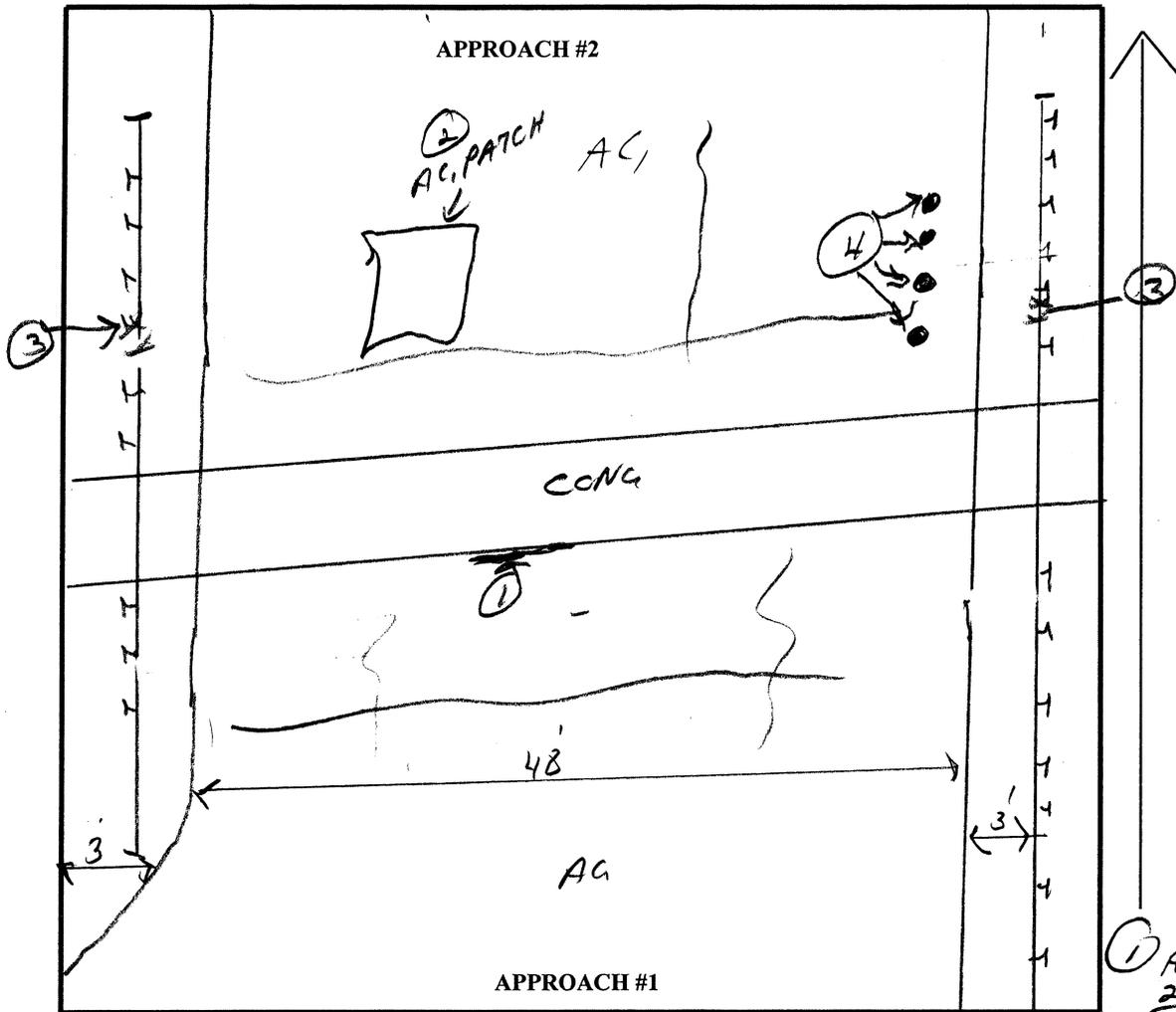
RANDY LOVE

INSPECTOR

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

BRIDGE NO.: 79I02400111 79 SR057 0818 - DATE: _____

CO. ROUTE LOG MILE L/R SKEW



DIRECTION OF ROUTE

④
ROCK HOLES
3" DIA x 1/16"

① AC SPALLING
2' x 4' x 1/16"

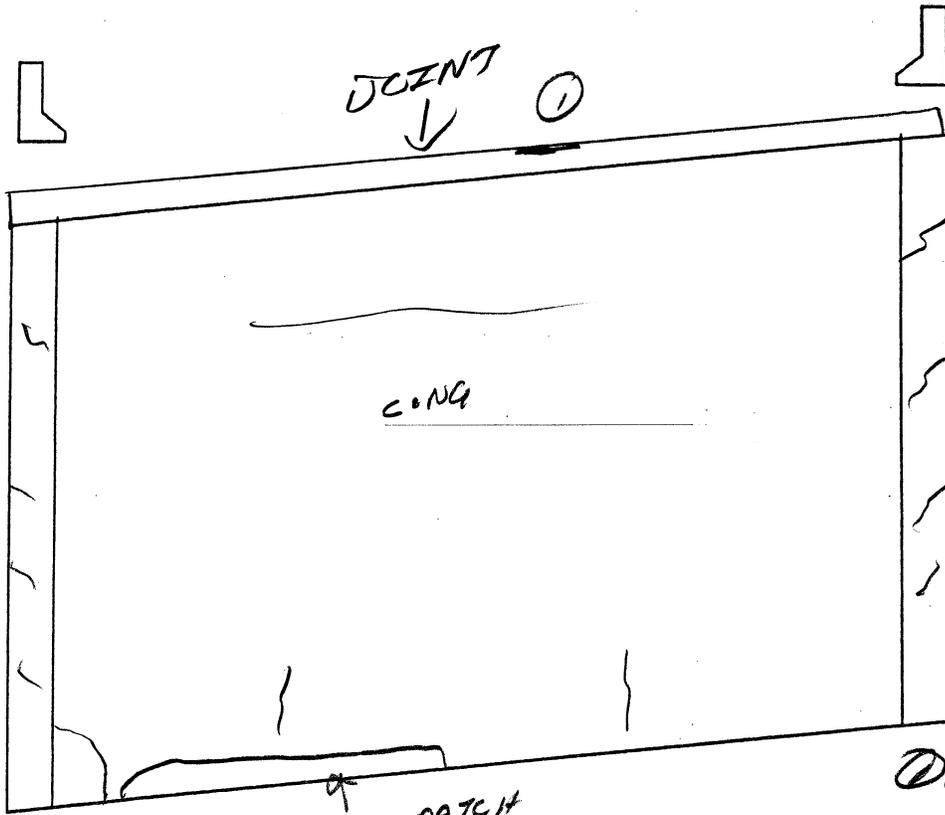
ELEMENT	RATING	COMMENTS
ALIGNMENT	G F P C	APPROACH #2 BUILT IN CURVE
APPROACH PAVEMENT	G F P C	SEE ② AND FINE CRACKS
APPROACH SLAB	G F P C	
APPROACH GUARDRAIL	G F P C	SEE ③
EMBANKMENT	G F P C	
DRAINS	G F P C	
APPROACH JOINT	G F P C	
SIGNS	G F P C	

③ LIGHT COLLISION DAMAGE SECTION 6' L

79-57-8.18

Bridge No. Co. Route Log Mile R/L Skew

SPAN. NO. 1

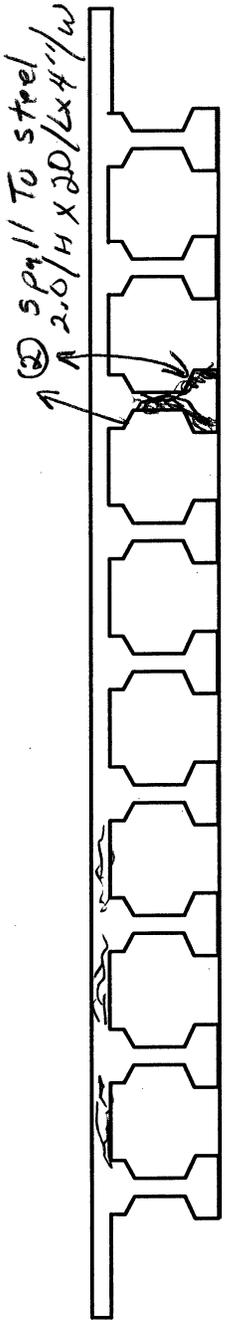


JOINT
HEADER
SPALLING
2" x 2' x 1/2" AND
MATERIAL TORN

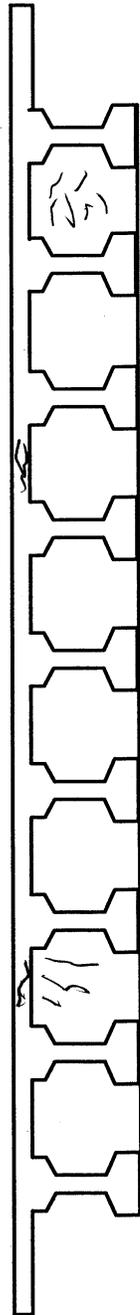
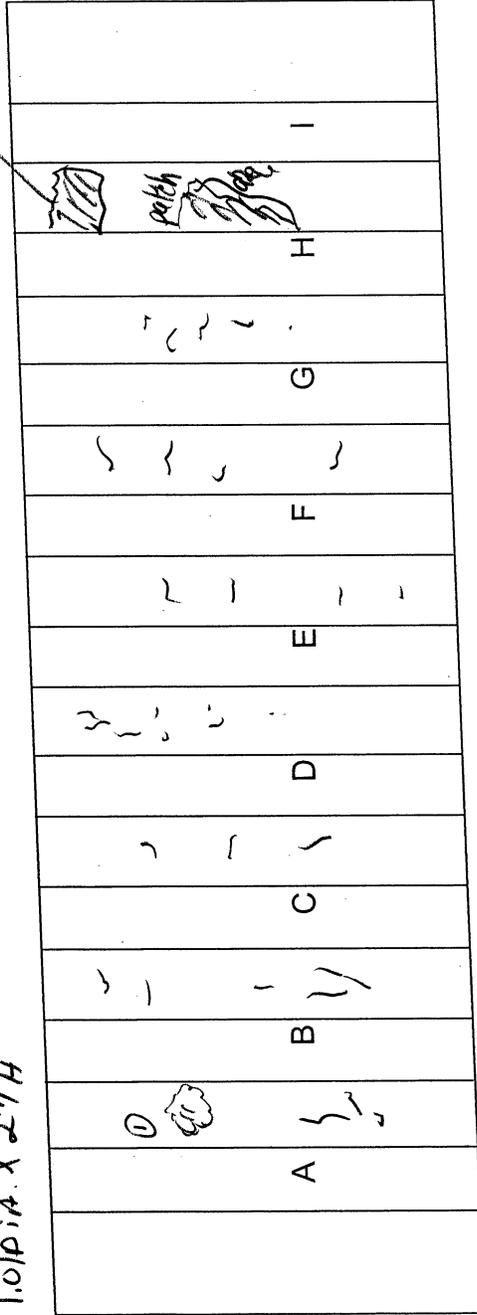
ELEMENT	RATING	COMMENT
TOP DECK	G $\text{\textcircled{2}}$ P C	SEE $\text{\textcircled{2}}$ FINE CRACKS
PARAPET	G $\text{\textcircled{2}}$ P C	FINE CRACKS
DRAINS	$\text{\textcircled{2}}$ F P C	
JOINTS	G F $\text{\textcircled{1}}$ C	SEE $\text{\textcircled{1}}$
	G F P C	

3-4-2013

Bridge No. 79-57-8.18 SKEW R/L _____ Span No. 1



LOOKING AHEAD
 ① Spall to steel around Drain
 1.0/p.i.A. x 2 1/4 H
 Patch area



LOOKING BACK

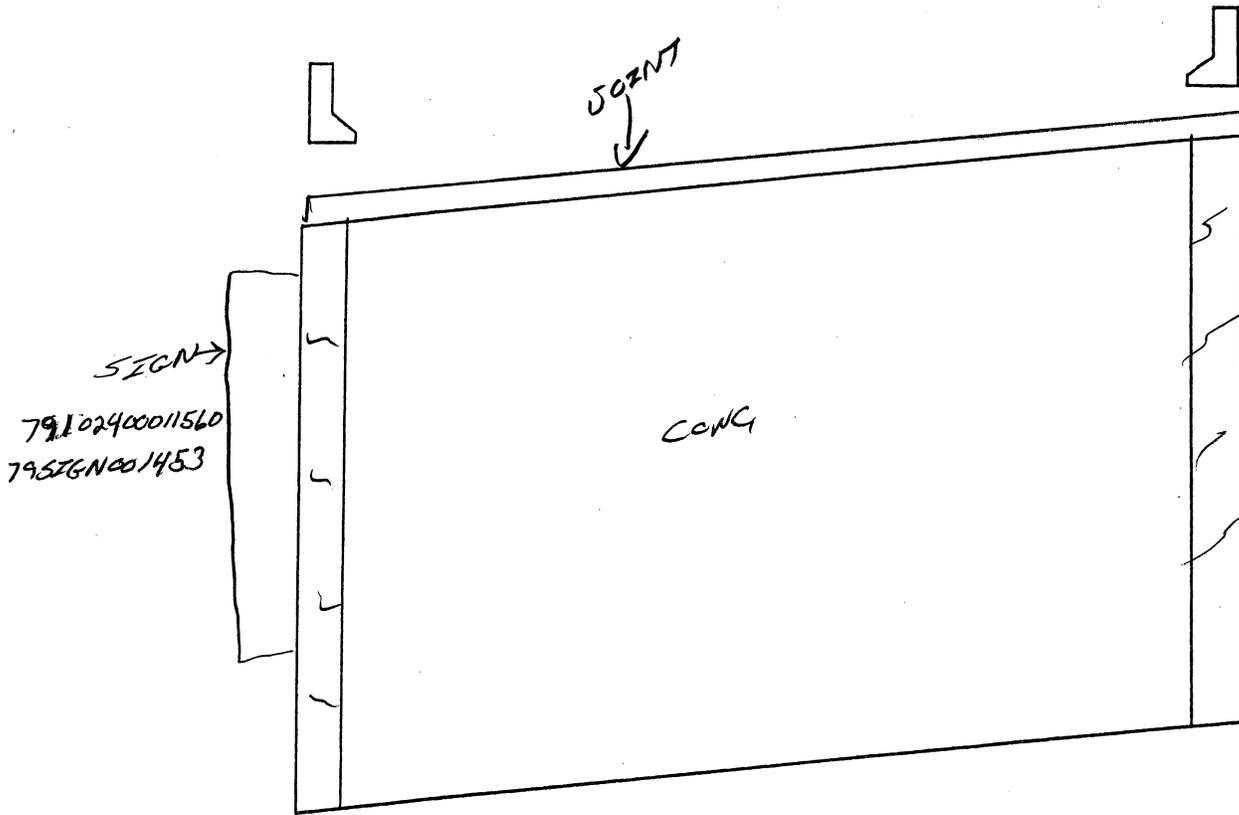
ELEMENT	RATING	COMMENTS
BOTTOM DECK	GⓅP C	Five cracks + Patch area + see ①
CONC. I BEAM	ⓄF P C	
A --- J	G F Ⓟ C	see ②
C I B (G)	G F P C	Fine cracks
BACKWALLS	G F P C	
DIA.	GⓅP C	Not connected C T B (A)
F.A.	G F Ⓞ C	

79-57-8.18

MAR 04 2013

Bridge No. Co. Route Log Mile R/L Skew

SPAN. NO. 2



ELEMENT	RATING	COMMENT
TOP DECK	G F P C	
PARAPET	G F P C	FZNE CRACKS
DRAINS	G F P C	
JOINTS	G F P C	
SIGN	G F P C	

Bridge No. 79-57-8.18

SKEW

Span No. 2

3-2013

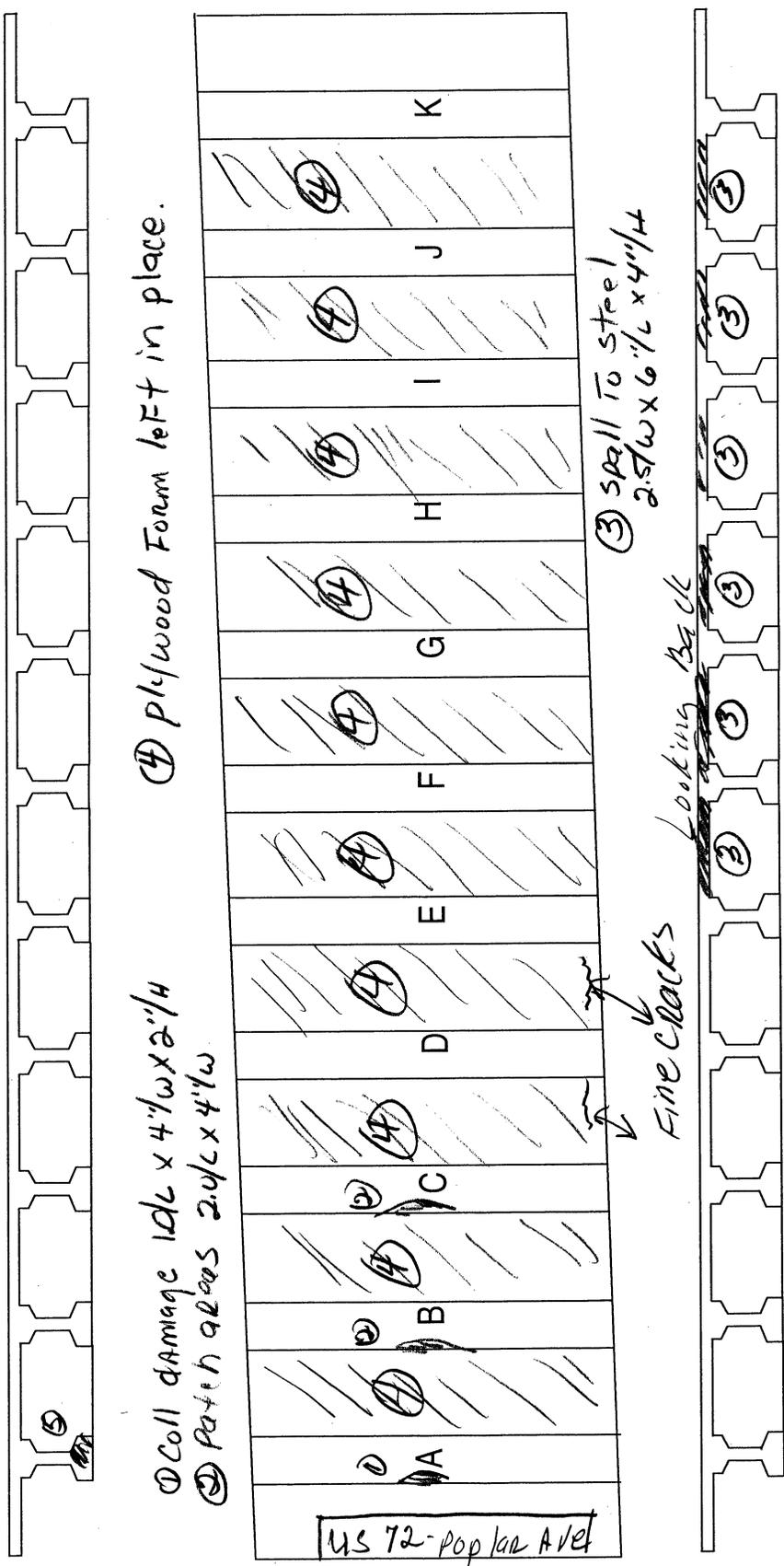
⑤ Spall to steel
10" H x 6" W x 8 1/2"

④ Plywood Form left in place.

① Coll damage 1DL x 4" W x 2" H
② Patch areas 2.0' L x 4" W

③ Spall to steel
2.5' W x 6 1/2" x 4 1/4"

Looking Back
Fine cracks

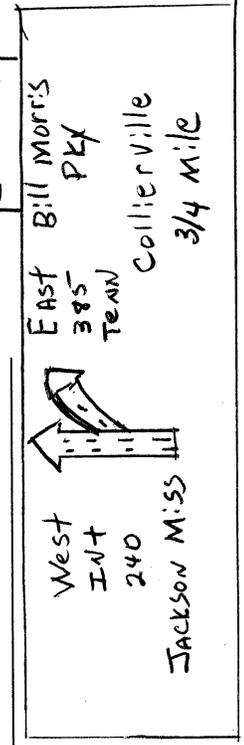


Exit 16

COMMENTS

RATING

ELEMENT



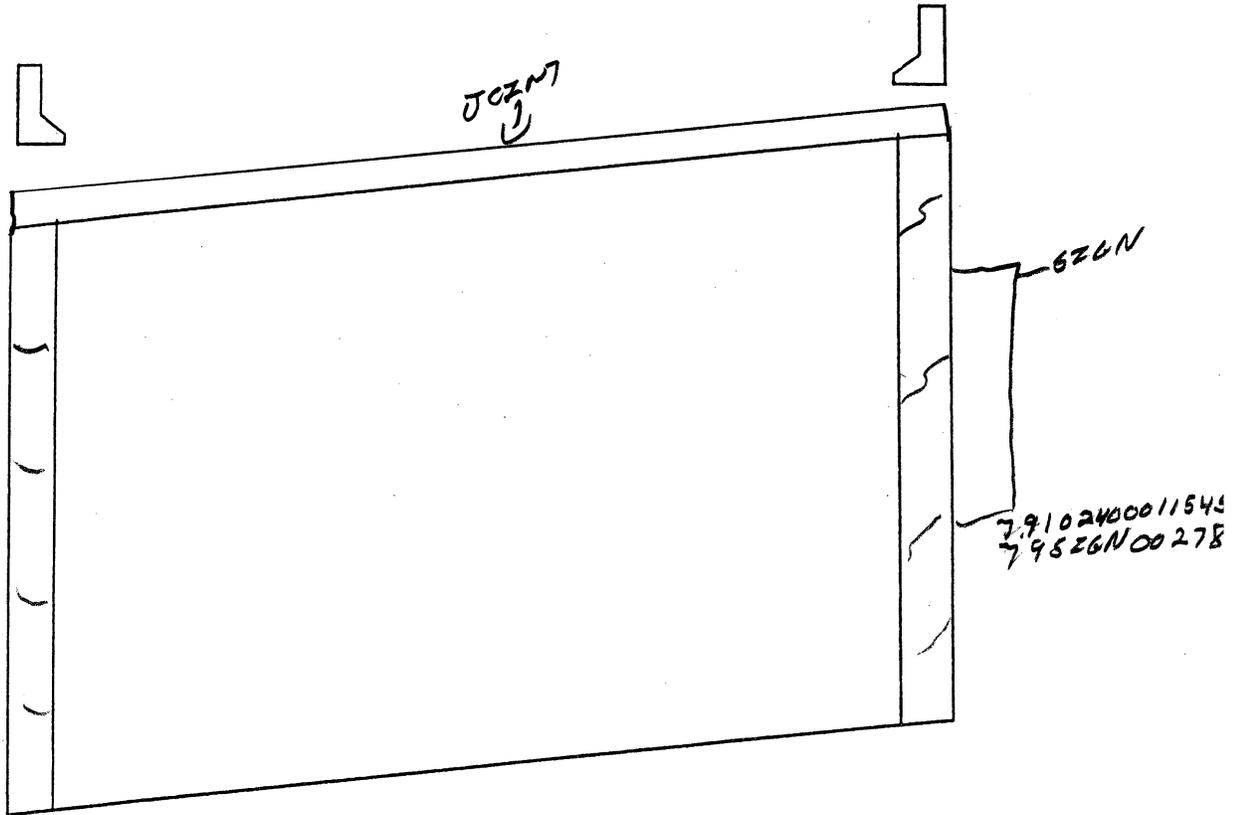
ELEMENT	RATING	COMMENTS
BOTTOM DECK CONC. I BEAM	G ⊕ P C ⊙ F P C	Fine cracks + see ④
A --- A	G ⊕ P C	see ① + ⑤
B+C	G ⊕ P C	See ②
D thru K	G F P C	N/A
BACKWALLS	G F P C	See ③
DIA.	G F ⊕ P C ⊙ F P C	
E &		

79-57-8.18

MAR 04 2013

Bridge No. Co. Route Log Mile R/L Skew

SPAN. NO. 3



ELEMENT	RATING	COMMENT
TOP DECK	G F P C	
PARAPET	G F P C	FZNE CRACKS
DRAINS	G F P C	
JOINTS	G F P C	
SZBN	G F P C	

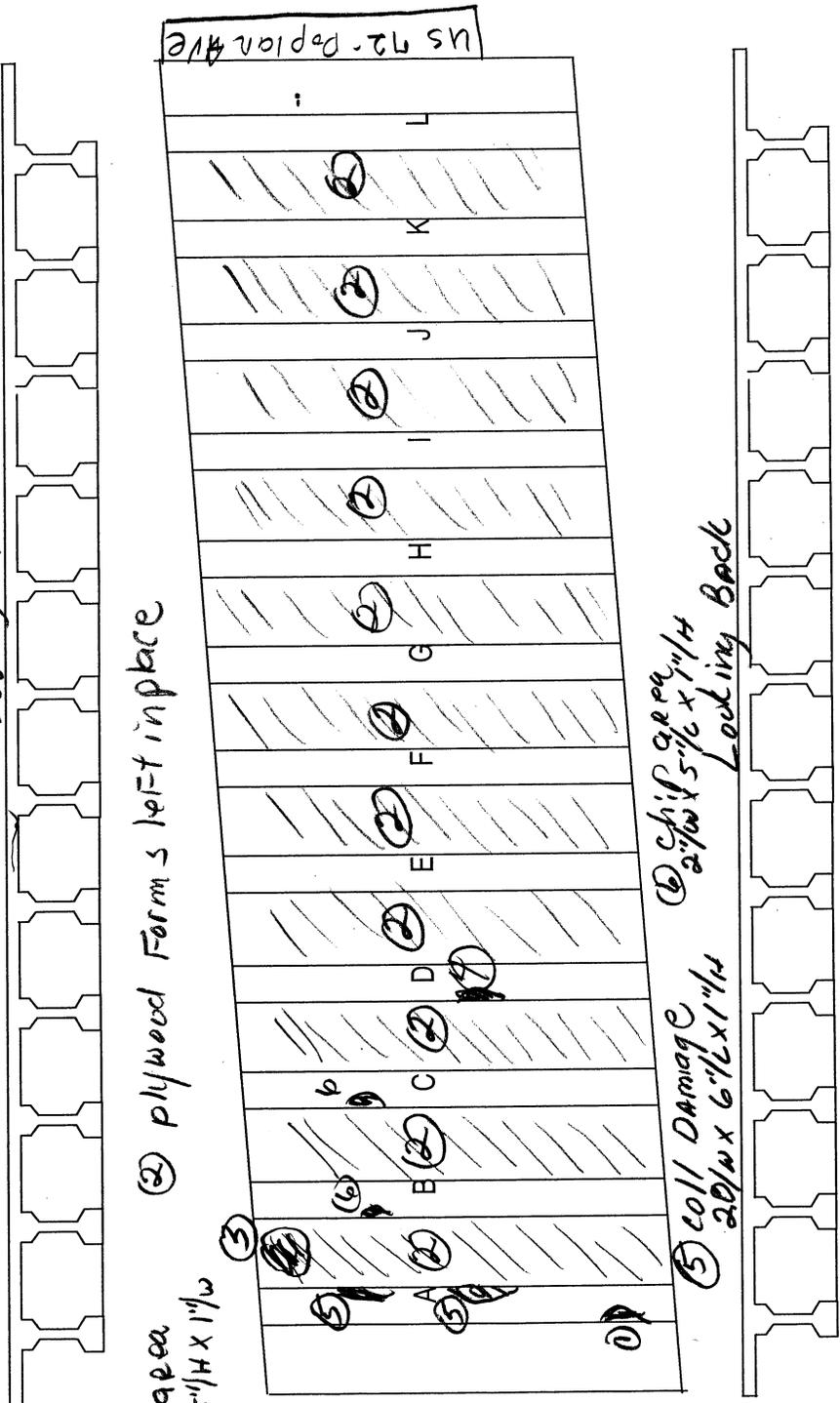
2-4-13
4 2013

Bridge No 79.57-8.18

SKREW

Span No. 13

Looking a Head



- ① chip area
1.0L x 5" / H x 1 1/2"
- ② plywood forms left in place
- ③
- ④ chip area
1.0L x 4" H
x 1 1/2"
- ⑤ spill to
steel
1.0 / dia x
2" H
- ⑥
- ⑦
- ⑧
- ⑨
- ⑩
- ⑪
- ⑫
- ⑬
- ⑭
- ⑮
- ⑯
- ⑰
- ⑱
- ⑲
- ⑳
- ㉑
- ㉒
- ㉓
- ㉔
- ㉕
- ㉖
- ㉗
- ㉘
- ㉙
- ㉚
- ㉛
- ㉜
- ㉝
- ㉞
- ㉟
- ㊱
- ㊲
- ㊳
- ㊴
- ㊵
- ㊶
- ㊷
- ㊸
- ㊹
- ㊺
- ㊻
- ㊼
- ㊽
- ㊾
- ㊿

Looking Back

ELEMENT	RATING	COMMENTS
BOTTOM DECK	G (F) P C	see ② + ③
CONC. I BEAM	G (F) O C	
A ---	G (F) P C	see ① + ⑤
B+C	G (F) P C	see ⑥
D	G (F) P C	see ④
BAGWALLS E-Q	G (F) P C	End cracks
DIA.	G (F) P C	

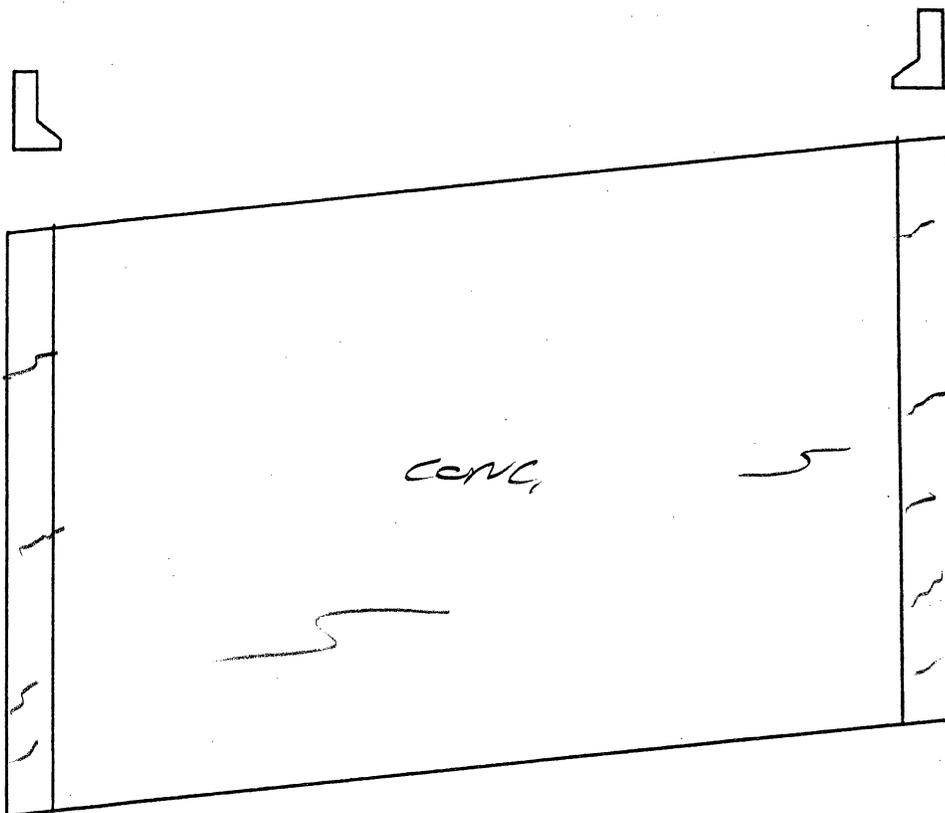
Exit 15B
72 West
Poplar Ave

CT & RETEN (S) (F.D.)

79-57-8.18

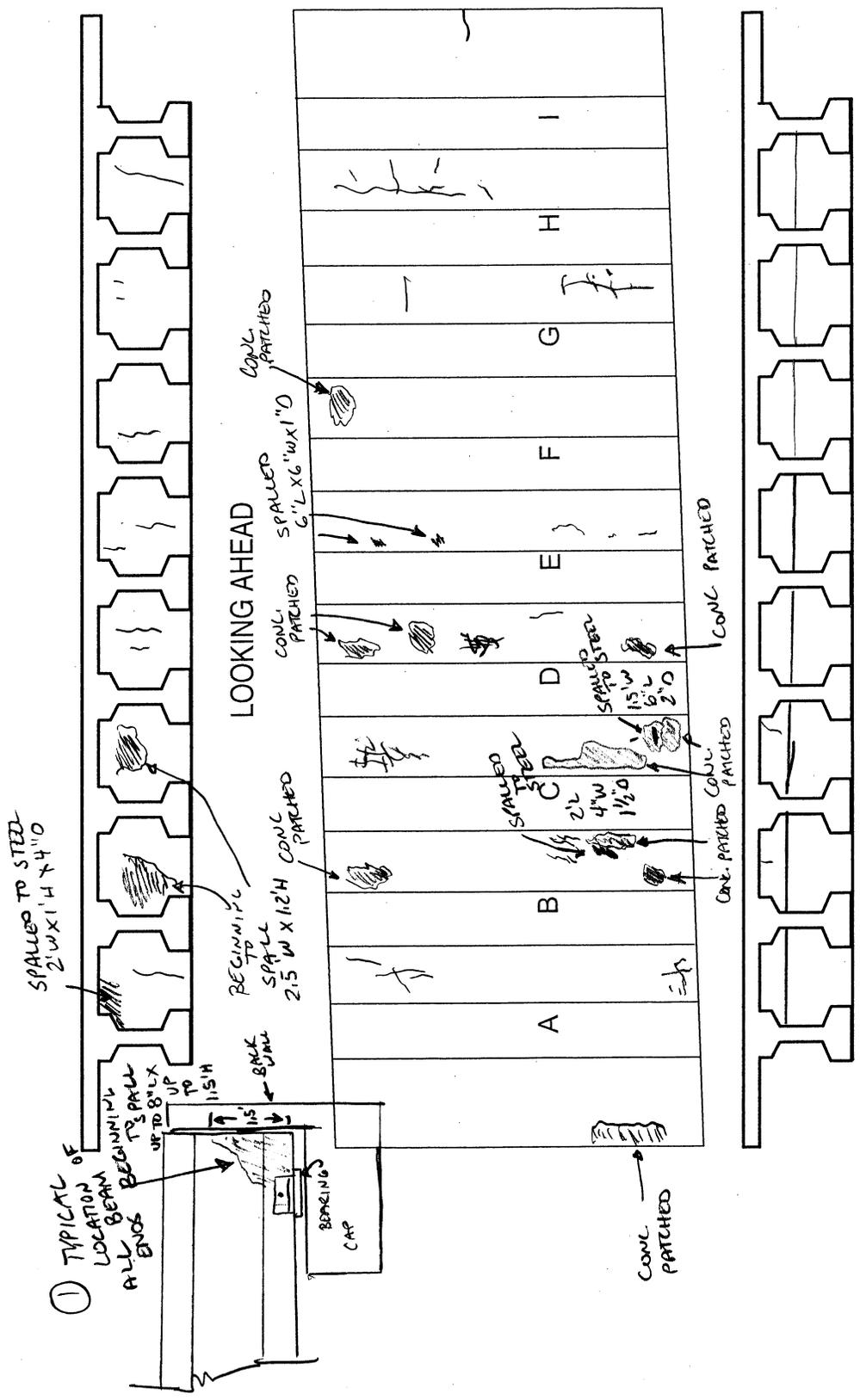
Bridge No. Co. Route Log Mile R/L Skew

SPAN. NO. 4



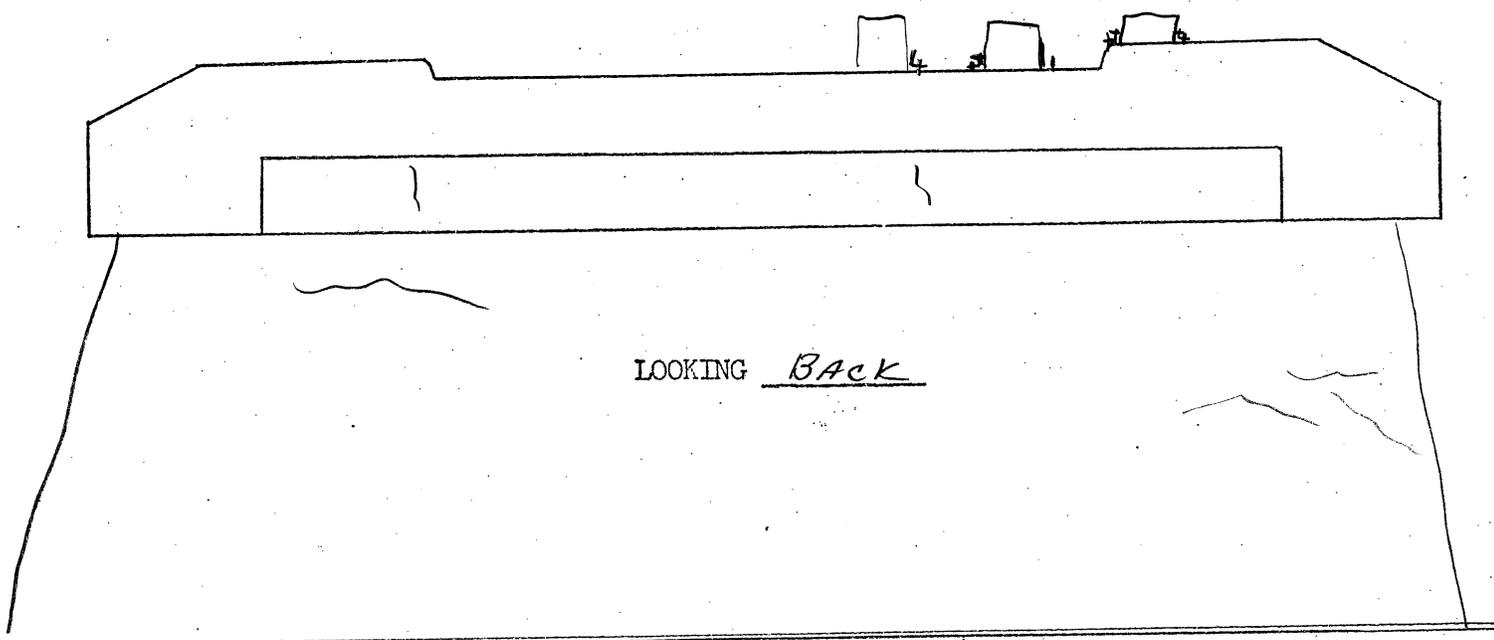
ELEMENT	RATING	COMMENT
TOP DECK	G P C	FINE CRACKS
PARAPET	G P C	/ /
DRAINS	G F P C	
JOINTS	G F P C	
	G F P C	

Bridge No. 79-57-8.18 SKEW RL Span No. 4



ELEMENT	RATING	COMMENTS
BOTTOM DECK	G ⊕ P C	FINE CRACKS / SPALLED TO STEEL / BEGINNING TO SPALL
CONC. I BEAM	G ⊕ P C	SEE ①
A --- I	G ⊕ P C	SPALLED TO STEEL / FINE CRACKS
BACKWALLS	G ⊕ P C	FINE CRACKS
DIA.	G ⊕ P C	

MAR 04 2015



LOOKING BACK

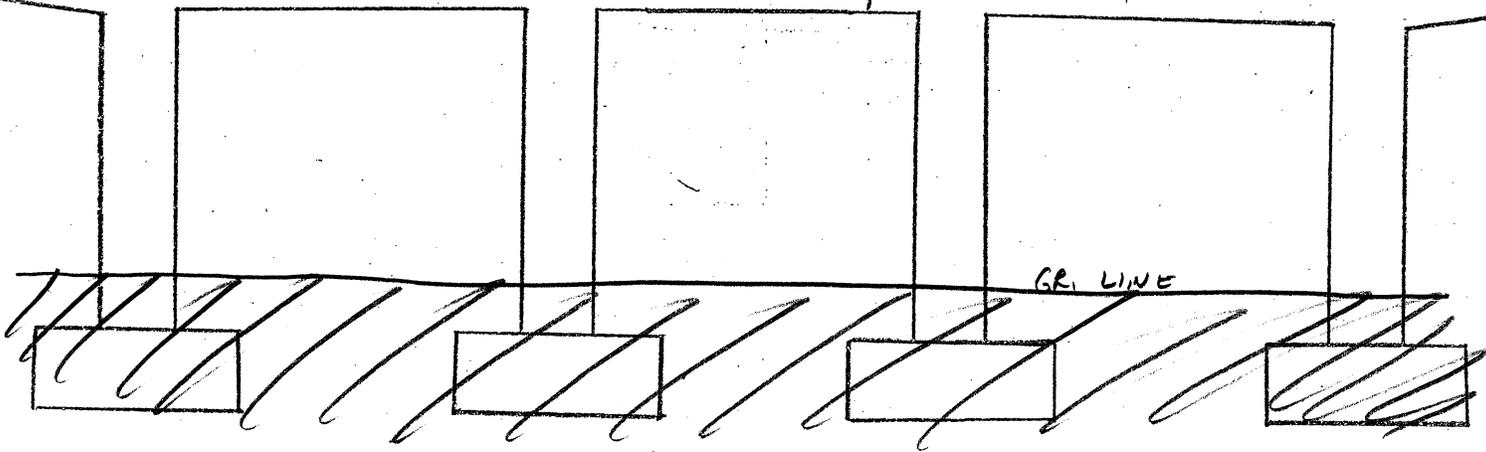
ELEMENT	RATING	COMMENT
BEARINGS	G F <u>P</u> C	Beam B span 1 missing + side plate. Beam "C" missing side B&T
CAP	G <u>F</u> P C	fine cracks
PIILING	G F P C	NP
WINGS	<u>G</u> F P C	
VEG.	<u>G</u> F P C	
EMBANKMENT	<u>G</u> F P C	
RIP RAP	G F P C	
SLOPE PAVING	G <u>F</u> P C	fine cracks
E.Q.	G F <u>P</u> C	Not connected
Riser Blocks	<u>G</u>	

Beam "F" missing side B&T
 Beams G, H, I are OK & missing side B&T's.

BRIDGE NO. 79 757 B.18

BENT NO. 1 JAN 04 2013

See Plans For Elev.



LOOKING AHEAD

ELEMENT	RATING	COMMENT
BEARING	(G) F P C	
CAP	G (F) P C	FINE CRACK
COLUMN	A (G) F P C	
	B (G) F P C	
	C (G) F P C	
Riser Blocks	(G) F P C	
FOOTING	G F P C	N/V
E.Q.	(G) F P C	

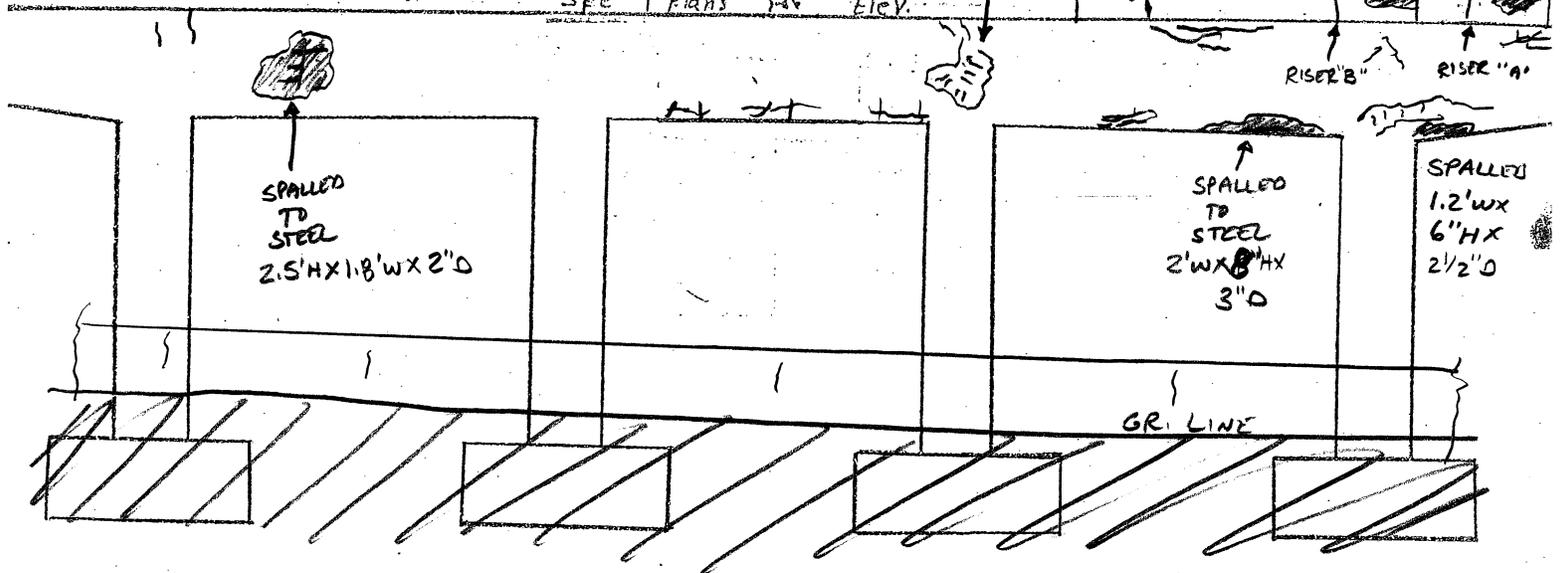
RT END VIEW OF CAP

BRIDGE NO. 79 757 B.I.B
RISER "G"

BEGINNING TO SPALL
 1.5' DIAM. BENT NO. 1
RISER "D"

TO STEEL
1.5' WX 2' DIA
RISER "A"

See Plans for Elev.



LOOKING BACK

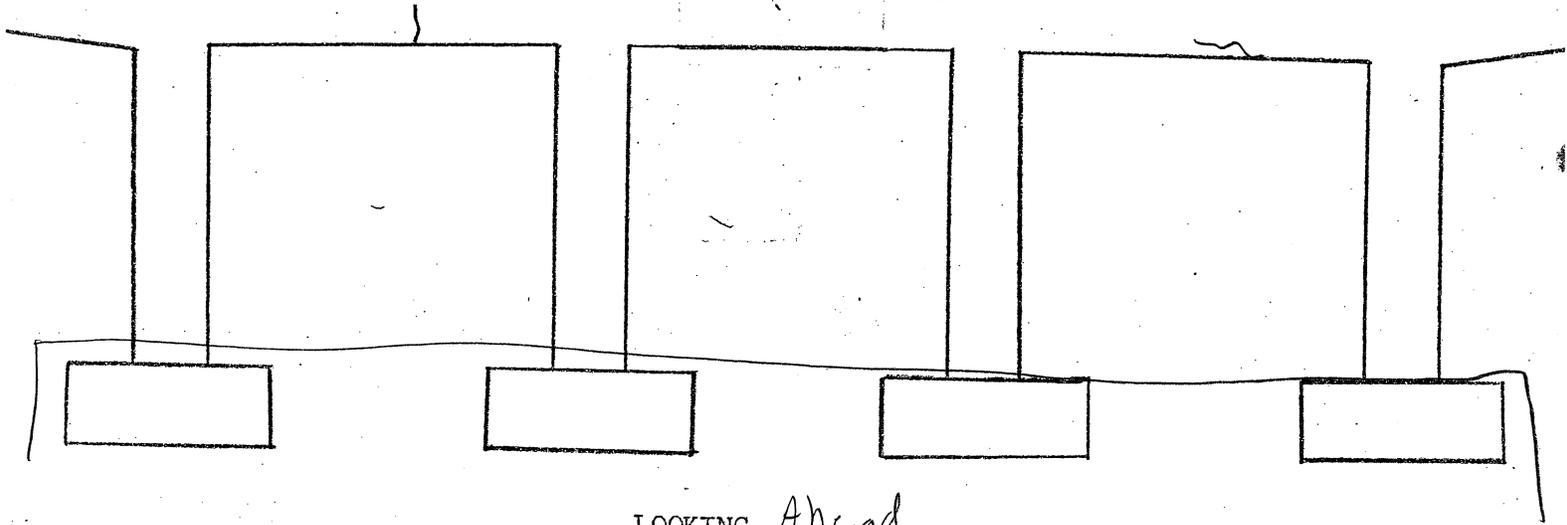
ELEMENT		RATING	COMMENT
BEARING		(G) F P C	
CAP		G (F) P C	SPALLED / SPALLED TO STEEL / FINE CRACKS BEGINNING TO SPALL
COLUMN	A	(G) F P C	
	B	(G) F P C	
	C	(G) F P C	
	D	(G)	
FOOTING		G F P C	N/V
Riser Blocks		G F (P) C	SPALLED TO STEEL UNDER C.I.B "A" & "B"
CONC. PARAPET		(F)	FINE CRACKS
E.O.		(G) F P C	

BRIDGE NO. 79 57 0.18

BENT NO. 2

201

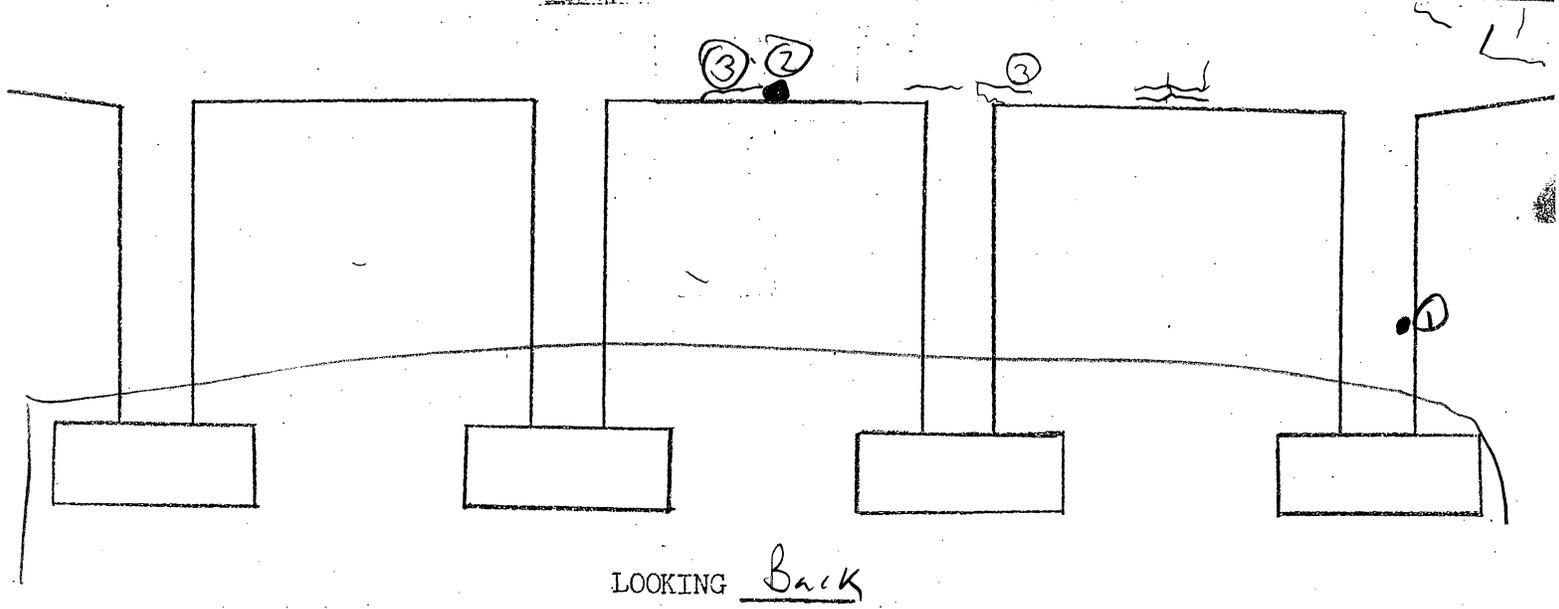
See Plans for Elev.



LOOKING Ahead

ELEMENT	RATING	COMMENT
BEARING	(G) F P C	
CAP	G (F) P C	fine cracks, see Backside
COLUMN	A (G) F P C	
	B (G) F P C	
	(G) (G) F P C	
FOOTING	G F P C	N/A
Riser Blocks	(G) F P C	
E. Q	(G) F P C	
Parapet	(F)	fine cracks

See Plans for Elev.

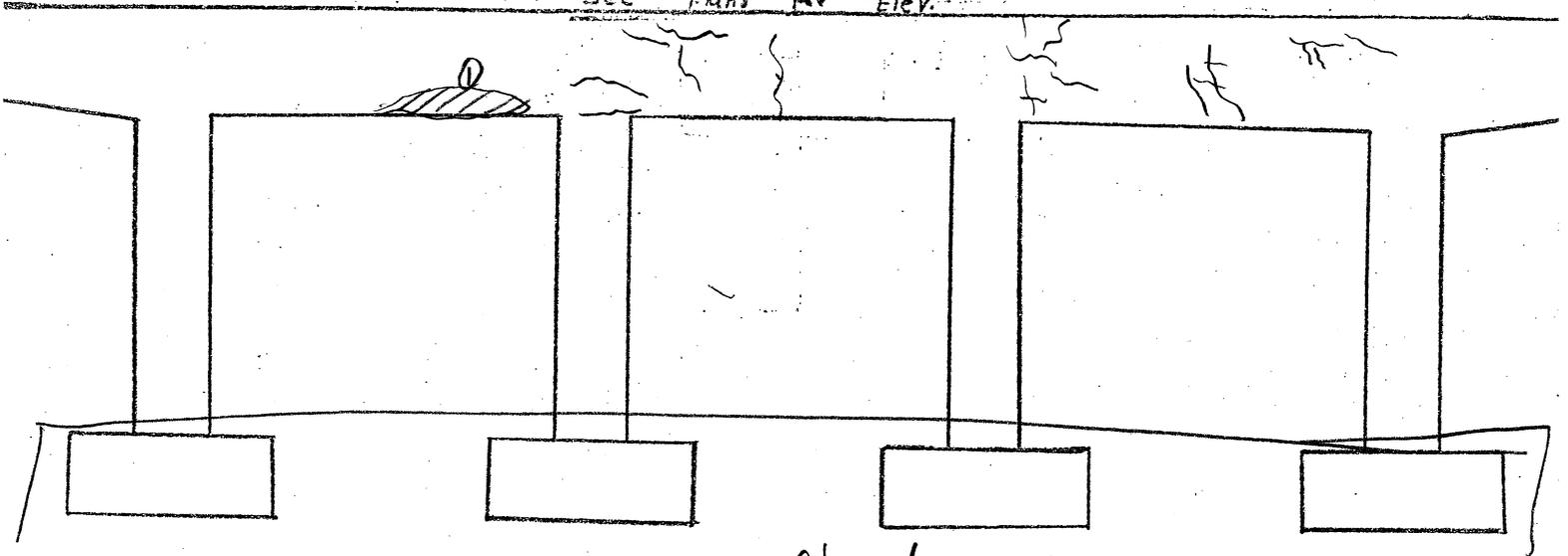


ELEMENT	RATING	COMMENT
BEARING	(G) F P C	① chipped area 5" dia x 4" D
CAP	G (F) P C	see ②, ③, fine cracks ② spalling 1' H x 1' W x 4" D
COLUMN	A G (F) P C	see ①
	B (G) F P C	③ Beginning to spall with potential to fall in roadway 2' W x 1' H
	C (G) F P C	
FOOTING	G F P C	N/A
Riser Blocks	(G) F P C	
E. Q	(G) F P C	
Parapet	(F)	Eme cracks

BRIDGE NO. 79 57 8.18

BENT NO. 3 MAR 04 2013

See Plans for Elev.



LOOKING Ahead

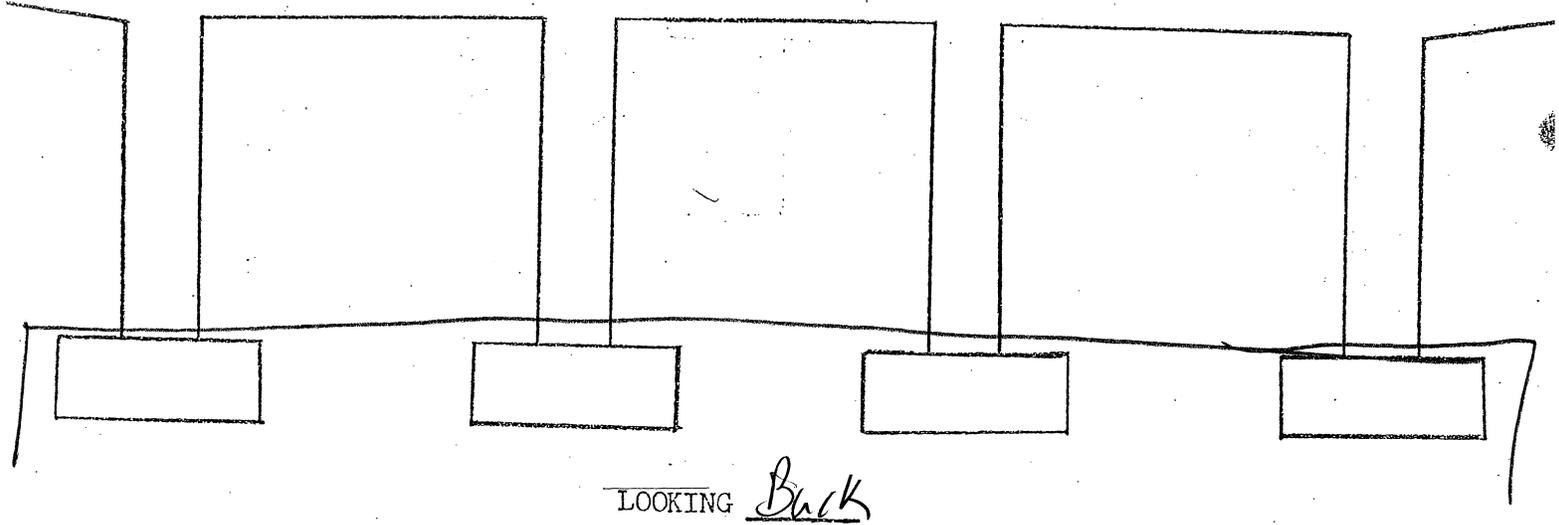
ELEMENT	RATING	COMMENT
BEARING	(G) F P C	① Begn + open joints H
CAP	G (F) P C	see ①, fine cracks
COLUMN	A (G) F P C	
	B (G) F P C	
	C/D (G) F P C	
FOOTING	G F P C	NK
Riser Blocks	G (F) P C	fine cracks
E. Q.	(G) F P C	
Parapet	(F)	fine cracks

BRIDGE NO. 79 57 8.18

BENT NO. 3

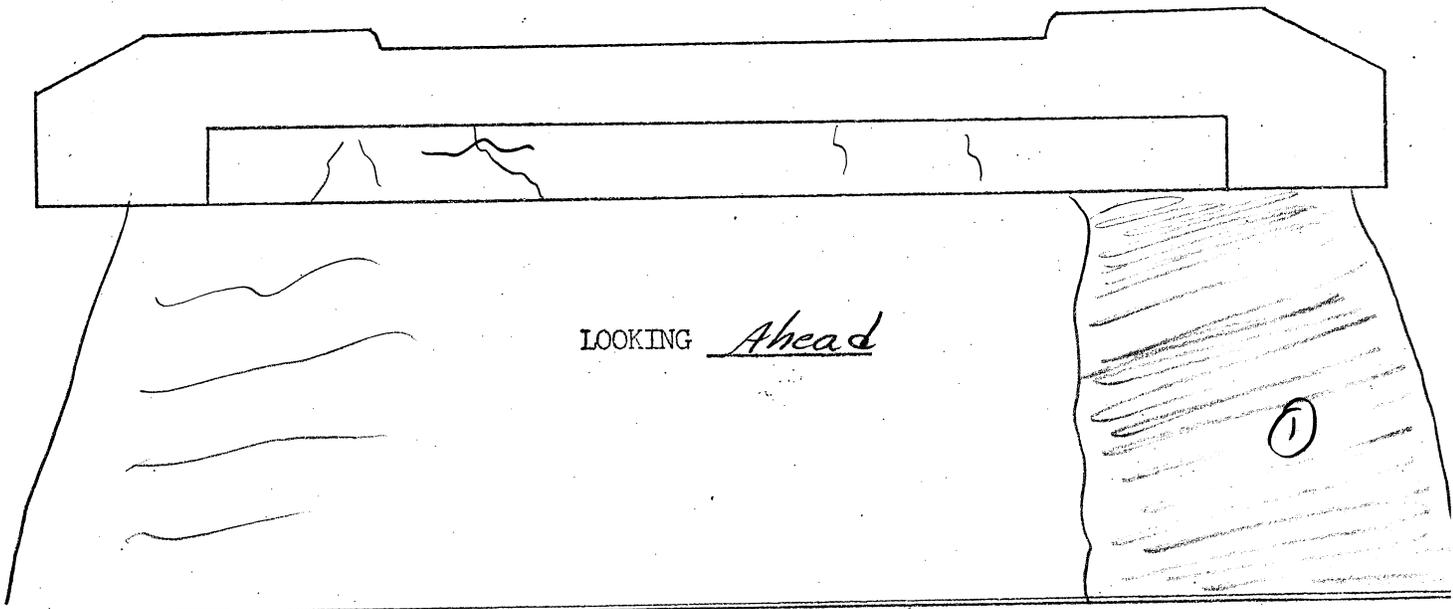
MAR 04 2013

See Plans for Elev.



ELEMENT		RATING	COMMENT
BEARING		G F P C	SEE front
CAP		G F P C	
COLUMN	A	G F P C	
	B	G F P C	
	C	G F P C	
FOOTING		G F P C	
Riser Blocks		G F P C	
E. Q.		G F P C	

MAR 04 2013



ELEMENT	RATING	COMMENT
BEARINGS	G F P C	
CAP	G F P C	fine cracks
PILING	G F P C	N/A
WINGS	G F P C	
VEG.	G F P C	
EMBANKMENT	G F P C	
RIP-RAP	G F P C	
SLOPE PAVING	G F P C	see ①
E. Q.	G F P C	
Riser Blocks	G	

① Slope par
missing
30'w x 45'L
(under construction)

Underpass Condition Coding Form

County: 79

Route: I0240

Special Case: 0

County Sequence: 1

Bridge Number: 79I024001112
(Includes Item 5A)

Log Mile: 15.57

Feature Intersected: SR 57 EBL / I240

CODE ONLY THOSE VALUES WHICH HAVE CHANGED

ITEM #	DESCRIPTION	VALUE	UNDERPASS SAFETY FEATURES
90	LAST INSPECTION DATE	03/04/2013	
	EARLIEST DATE OF NEXT REGULAR INSPECTION	01/03/2015	
		/ /	
10	MINIMUM V.C. OVER DECK (ROADWAY + SHOULDERS)	16 FT. 5 IN. ____ FT. ____ IN.	515 (A) TYPE UNDERPASS BARRIER COMBINATION OF METAL & CONCRETE BARRIER OR RAIL
			Revised Barrier Type
520	MINIMUM V.C. OVER DECK (EXCLUDES SHOULDERS)	16 FT. 5 IN. ____ FT. ____ IN.	(B) ADEQUACY OF BARRIER OR RAIL 1
47	TOTAL HORIZONTAL UNDERCLEARANCE	65 FT. 6 IN. ____ FT. ____ IN.	(C) ADEQUACY OF TRANSITIONS 0
54	MINIMUM VERTICAL UNDERCLEARANCE (EXCLUDES SHOULDERS)		(D) ADEQUACY OF TERMINALS 0
	Circle One: H R	____ FT. ____ IN.	
55	MINIMUM LATERAL UNDERCLEARANCE ON RIGHT SIDE		554 VERTICAL CLEARANCE LISTED ON HEIGHT POSTING
	Circle One: H R	____ FT. ____ IN.	FT. IN. ____ FT. ____ IN.
56	MINIMUM LATERAL UNDERCLEARANCE ON LEFT SIDE	____ FT. ____ IN.	16 LATITUDE 17 LONGITUDE
			N 35° 6.1133' W 89° 52.2217'
521	OVERALL CONDITION	POOR	HEIGHT POSTED AT BOTH APPROACHES? YES [] NO [] N/A []
555	COMMENTS		

TEAM LEADER SIGNATURE

/ /
REVIEW DATE

BRIDGE MAINTENANCE RECOMMENDATIONS



Tennessee Department
of Transportation

COUNTY: SHELBY
LOCATION: 79-I0240-15.57-
CO. SEQ.: 1 SPEC. CASE: 0
MILEPOST: 15.58

CROSSING: SR 57 EBL / I240
FED. BRIDGE NO.: 79I02400111
MAINT. DIST.: 79

REPAIR LIST NO.: N
DATE ADDED:
REVISED: 03/04/2013

FACILITY CARRIED:	FAP 57	NUMBER OF MAIN SPANS:	
HIGHWAY SYSTEM:	02-INTERSTATE URBAN	NUMBER OF APPROACH SPANS:	
BRIDGE WIDTH (CURB TO CURB):	N/A FT IN	BRIDGE LENGTH (FT):	243
BRIDGE WIDTH (OUT TO OUT):	N/A FT IN	MAXIMUM SPAN LENGTH (FT):	79
APPROACH ROADWAY (W/SHOULDERS):	187 FT 11 IN	SKEW ANGLE (DEGREES):	N/A
MAINTAINED BY:			
MAIN SPAN MATERIAL:	PRESTRESSED CONCRETE		
MAIN SPAN DESIGN TYPE:	STRINGER/MULTI-BEAM OR GIRDER		
APPROACH SPAN MATERIAL:			
APPROACH SPAN DESIGN TYPE:			
INSPECTION DATE:	03/04/2013	GENERAL CONDITION:	POOR
EVALUATION DATE:	04/19/2011	STRUCTURALLY DEFICIENT:	
PPRM PIN NUMBER:		SUFFICIENCY RATING:	
H TRUCK RATING @ INV.:	TONS		

SUGGESTED ROUTINE MAINTENANCE AND COMMENTS
SEE BR. NO. 79-SR057-08.18 (79I02400111) FOR RECOMMENDATIONS

GENERAL COMMENTS:

INSPECTION REPORT FOR UNDERPASS ROUTE

Form BIR 3.0A
(Rev. 9-22-98)
DT-1443

Field Report No. _____ Date _____
Previous Report No. _____ Date _____

Bridge No. 79I02400111
Eleven Digit No.

Underpass Location No. 79 - SR057 - 0818 -

_____ or _____ over/
_____ under _____
Co. Route Log Mile Co. Route Log Mile

Railroad/Walkway _____
County Shelby

Structure Name (If Named) _____

Year Constructed _____

Year Widened _____ Year Rehabilitated _____

GEOMETRIC FEATURES UNDER BRIDGE (*. * ft. unless otherwise noted)

Divided Highway LEFT RDWY (X) RIGHT RDWY () N.A. () ①

Type of Wearing Surface CONCRETE () ASPHALT (X) GRAVEL ()

Width of Approach Traveled Roadway 36 ft. (Does Not Include Shoulders)

Width of Median if Divided Highway 26 ft.

Approach Shoulder Width 15 ft. Right 11 ft. Left

*Horizontal Clearance Under Bridge 60 ft. 0 in.

*Distance Between Pier Protection Guardrail and Substructure .5 ft. Right .5 ft. Left

*Width of Sidewalk Under Bridge _____ ft. Right _____ ft. Left

*Minimum Vertical Clearance: _____ ft. _____ in.

*Show on Sketch

NOTE: UNDERPASS IS UNDER CONSTRUCTION

TRAFFIC SAFETY FEATURES FOR UNDERPASS ROUTE

	STANDARD	SUB-STANDARD	NON EXIST
Pier Protection Railing or Parapet	G F P C ()	()	()
Approach Guardrail Transitions	G F P C ()	()	()
Approach Guardrail	G F P C ()	()	()
Approach Guardrail Terminal	G F P C ()	()	()

SIGNING FOR UNDERPASS ROUTE

Paddleboards YES () NO (X) NEEDED ()
Vertical Clearance (<14'-6") YES () NO (X) NEEDED ()
Narrow Passage YES () NO (X) NEEDED ()
One Lane Passage YES () NO (X) NEEDED ()
Other Underpass Signs Needed

NONE

INSPECTORS

1. LEWIS
2. _____
3. _____
4. _____
5. _____
6. _____

INSPECTION REPORT FOR UNDERPASS ROUTE

Form BIR 3.0A
(Rev. 9-22-98)
DT-1443

Field Report No. _____ Date _____
Previous Report No. _____ Date _____

Bridge No. 79I02400111
Eleven Digit No.

Underpass Location No. 79 - SR057 - 0818 -

_____ or _____ over/
_____ under _____
Co. Route Log Mile Co. Route Log Mile

Railroad/Walkway _____
County Shelby

Structure Name (If Named) _____

Year Constructed _____

Year Widened _____ Year Rehabilitated _____

GEOMETRIC FEATURES UNDER BRIDGE (*. * ft. unless otherwise noted)

(2)

Divided Highway LEFT RDWY () RIGHT RDWY (X) N.A. ()

Type of Wearing Surface CONCRETE () ASPHALT (X) GRAVEL ()

Width of Approach Traveled Roadway 36' ft. (Does Not Include Shoulders)

Width of Median if Divided Highway 26 ft.

Approach Shoulder Width 18.5 ft. Right 11 ft. Left

*Horizontal Clearance Under Bridge 65 ft. 6 IN.

*Distance Between Pier Protection Guardrail and Substructure .5 ft. Right .5 ft. Left

*Width of Sidewalk Under Bridge _____ ft. Right _____ ft. Left

*Minimum Vertical Clearance: _____ ft. _____ in.

*Show on Sketch

NOTE: UNDERPASS IS UNDER CONSTRUCTION

TRAFFIC SAFETY FEATURES FOR UNDERPASS ROUTE

		STANDARD	SUB-STANDARD	NON EXIST
Pier Protection Railing or Parapet	G F P C ()	()	()	()
Approach Guardrail Transitions	G F P C ()	()	()	()
Approach Guardrail	G F P C ()	()	()	()
Approach Guardrail Terminal	G F P C ()	()	()	()

SIGNING FOR UNDERPASS ROUTE

Paddleboards YES () NO (X) NEEDED ()
Vertical Clearance (<14'-6") YES () NO (X) NEEDED ()
Narrow Passage YES () NO (X) NEEDED ()
One Lane Passage YES () NO (X) NEEDED ()
Other Underpass Signs Needed

NONE

INSPECTORS

- LEWIS
- _____
- _____
- _____
- _____
- _____

Other Signs or Plaques: SEE BOTTOM OF DECK FORMS AT SPAN #2 & #3
FOR BRIDGE MOUNT SIGNS

Comments Regarding any Problems with Signing: NONE

BRIDGE FEATURES (*.* ft.)

Bridge Skew _____ °

Structure Type (Main Span) C.I.B No. Main Spans 2

Structure Type (Appr. Spans) C.I.B No. Appr. Spans 2

Maximum Span Length 79 (ft.) Total Length 245 (ft.)

Width of Bridge Out-to-Out 59.7 (ft.) Right Angle to Centerline of Bridge

Width of Bridge Along Skew _____ (ft.) (If Unable to Measure at Right Angle to Centerline of Bridge)

Number of Lanes/Tracks on Bridge 4

BRIDGE CONDITION: G F (D) C

Does Potential Exist for Elements from Bridge Falling on Roadway Beneath YES () NO ()

Does Potential Exist Because of Deteriorated Condition or Failure of Major Member YES () NO ()

Comment on any Conditions of Bridge that would Effect Roadway Beneath:

SPAN #2 & #3 HAS WOODEN FORMS LEFT IN PLACE FOR
POTENTIAL FOR CONCRETE TO FALL ONTO THE UNDERPASS. BENT
#2 CAP HAS A SECTION BEGINNING TO SPALL THAT COULD FALL
ONTO THE UNDERPASS.

Note: If Underpass Route is Divided Highway, Use Two of These Forms, One for Each Roadway.

MINIMUM PICTURES REQUIRED

1. Elevation View of Bridge on Both Sides Showing Underpass
2. View Showing Both Approaches to Bridge
3. View Showing Safety Features
4. View Showing Any Problems

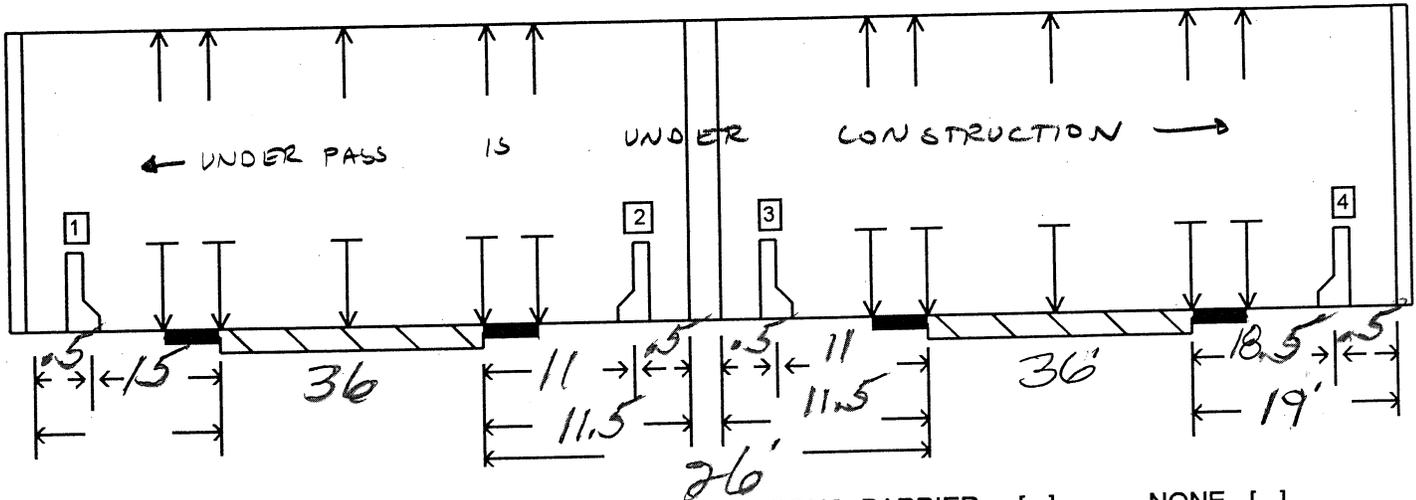
04 2013

Lt

LATERAL AND VERTICAL CLEARANCES

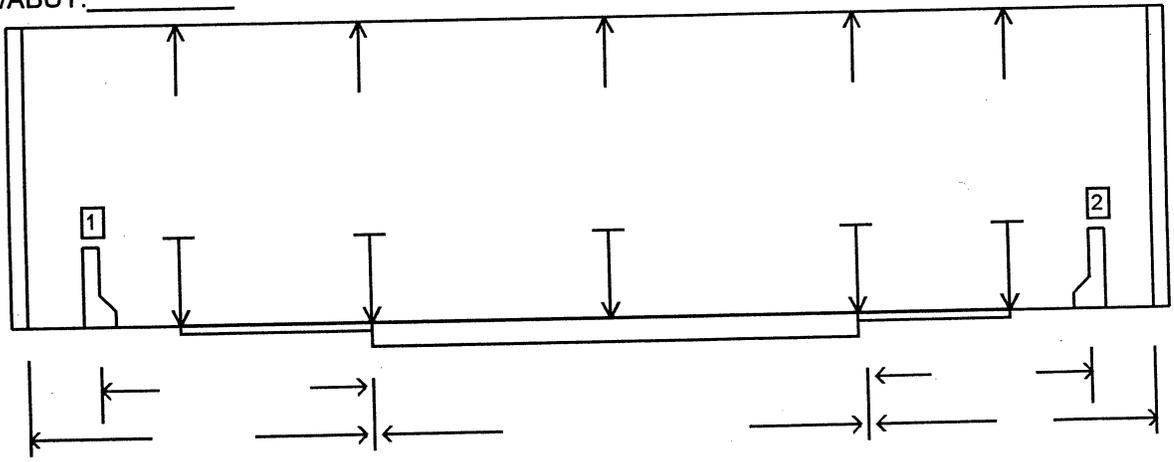
Rt

BENT/ABUT. 1 BENT 2 BENT/ABUT. 3

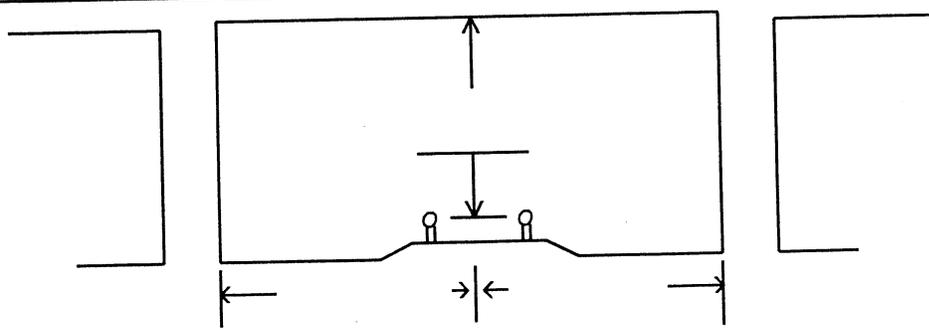


- | | | | |
|-----------------------|-------------|-------------------|----------|
| 1. RAIL/BARRIER TYPE: | W-SHAPE [] | CONC. BARRIER [] | NONE [] |
| 2. RAIL/BARRIER TYPE: | W-SHAPE [] | CONC. BARRIER [] | NONE [] |
| 3. RAIL/BARRIER TYPE: | W-SHAPE [] | CONC. BARRIER [] | NONE [] |
| 4. RAIL/BARRIER TYPE: | W-SHAPE [] | CONC. BARRIER [] | NONE [] |

BENT/ABUT. _____ BENT/ABUT. _____

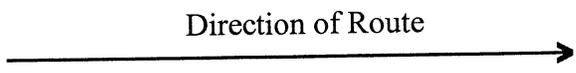


BENT/ABUT. _____ BENT/ABUT. _____



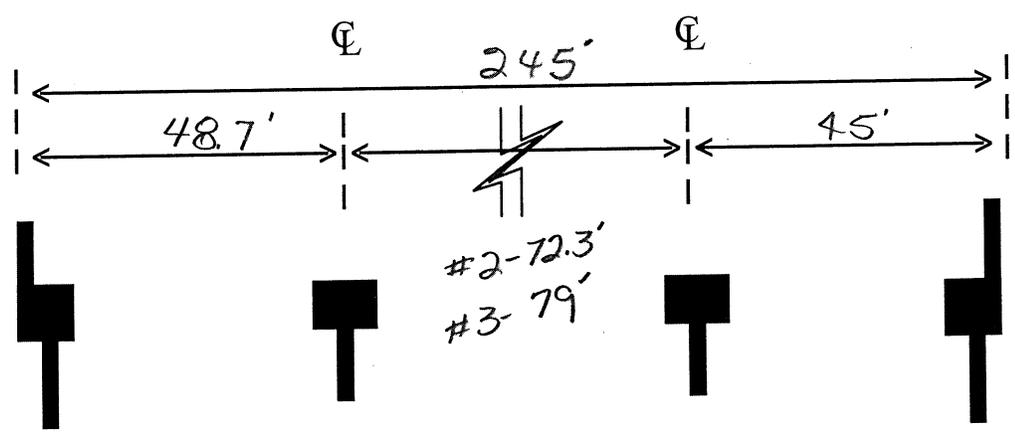
MAR 04 2013

79I02400111 79 SR057 0818 _____ SKEW: --R
BRIDGE NO.: CO. ROUTE L.M. L/R



- F = FIXED
- E = EXPANSION
- S = SIMPLE
- C = CONTINUOUS

Measured on Rt. Side



ABUT #1

BENT #1

ABUT #2

SIDE OF BRIDGE

