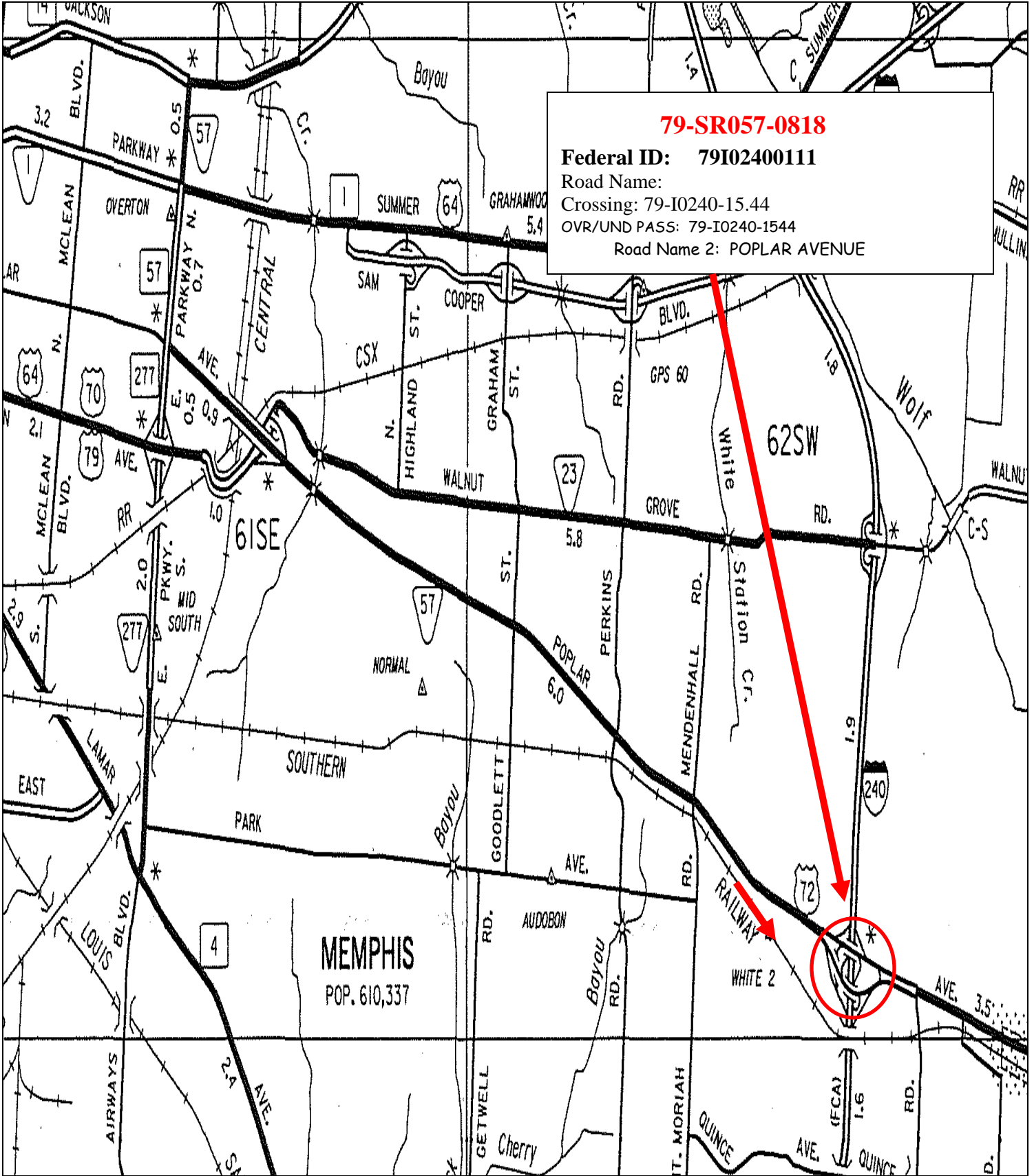


SHELBY COUNTY



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: SR-57 E.B. / I-240
FED. BRIDGE NO.: 79I02400111
MAINT. DIST.: 79

REPAIR LIST NO.: 2
DATE ADDED: 11/05/2004
REVISED: 03/23/2015

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:	03/23/2015	GENERAL CONDITION:	POOR
EVALUATION DATE:	03/06/2013	STRUCTURALLY DEFICIENT:	YES
PPRM PIN NUMBER:		SUFFICIENCY RATING:	63.9
H TRUCK RATING @ INV.:	20 TONS		

No.	RECOMMENDATIONS	REPAIR DATE	REPAIRED BY
1.	REPAIR CAPBEAM AT BENT NO. 1		
2.	PATCH BOTTOM OF DECK IN SPAN NO. 2 & 3		
3.	REPLACE CONCRETE RISER BLOCKS AT BENT NO.1		

SUGGESTED ROUTINE MAINTENANCE AND COMMENTS
REPAIR DIAPHRAGMS IN SPAN NO.2
CLEAN AND SEAL ROADWAY EXPANSION JOINTS.
REPAIR APPROACH GUARDRAILS AT APPROACH NO. 2, LT. SIDE (COLLISION)

GENERAL COMMENTS:
03-23-15 FORMS COVERING BOTTOM DECK SPANS #2 & #3 TO KEEP CONCRETE FROM FALLING ON ROADWAY



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

Bridge Condition Coding Form

Revised 03/24/2015

Bridge Number: 79I024001111
(Includes Item 5A)

Feature Intersected: SR-57 E.B. / I-240

Evaluation Status: OTHER ITEM(S) HAVE BEEN CHANGED

County: 79

Route: SR057

Special Case: 0

County Sequence: 1

Log Mile: 8.18

CODE ONLY THOSE VALUES WHICH HAVE CHANGED

ITEM #	DESCRIPTION	VALUE	CONDITION CODING GUIDELINES
90	LAST INSPECTION DATE	03/23/2015	(Values for Coding Items 58, 59, 60 and 62)
	EARLIEST DATE OF NEXT REGULAR INSPECTION	01/21/2017	
		<u> </u> / <u> </u> / <u> </u>	
10	MINIMUM V.C. OVER DECK (ROADWAY + SHOULDERS)	99 FT. 99 IN.	N NOT APPLICABLE
520	MINIMUM V.C. OVER DECK (EXCLUDES SHOULDERS)	99 FT. 99 IN.	9 EXCELLENT CONDITION
36	TRAFFIC SAFETY FEATURES		8 VERY GOOD CONDITION - NO PROBLEMS NOTED.
	Br. Rail	1	7 GOOD CONDITION - SOME MINOR PROBLEMS.
	Trans.	1	6 SATISFACTORY CONDITION - MINOR DETERIORATION OF STRUCTURAL ELEMENTS.
	Appr. Rail	1	5 FAIR CONDITION - ALL PRIMARY STRUCTURAL ELEMENTS ARE SOUND BUT MAY HAVE MINOR SECTION LOSS, CRACKING, SPALLING OR SCOUR.
	Terminal	1	4 POOR CONDITION - ADVANCED SECTION LOSS, DETERIORATION, SPALLING OR SCOUR.
	SPEED LIMIT	40	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.
41	STRC OPEN/CLOSED/POSTED	A	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.
	A K P		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.
58	DECK	4	0 FAILED CONDITION - OUT OF SERVICE AND BEYOND CORRECTIVE ACTION.
59	SUPERSTRUCTURE	5	
60	SUBSTRUCTURE	5	
61	CHANL/CHANL PROTECTION	N	
62	CULVERT AND RETAIN WALL	N	
71	WATERWAY ADEQUACY	N	
72	APPROACH RDWY ALIGNMENT	6	
521	OVERALL CONDITION	POOR	
16	LATITUDE	N 35° 6.1133'	
17	LONGITUDE	W 89° 52.2217'	
		<u> </u> / <u> </u> / <u> </u>	

TEAM LEADER SIGNATURE

REVIEW DATE

Bridge Loc. No: 79-SR057-08.18 Date: 03-23-15



BRIDGE NUMBER



DIRECTION OF ROUTE

Bridge Loc. No: 79-SR057-08.18 Date: 03-23-15



VIEW ACROSS DECK



SPAN # 1 JOINT WITH MATERIAL MISSING

Bridge Loc. No: 79-SR057-08.18 Date: 03-23-15



SIGN NUMBERS AT SPAN # 2



APPROACH # 2 LEFT GUARDRAIL AND TERMINAL WITH COLLISION DAMAGE

Bridge Loc. No: 79-SR057-08.18 Date: 03-23-15



OPPOSITE DIRECTION OF ROUTE

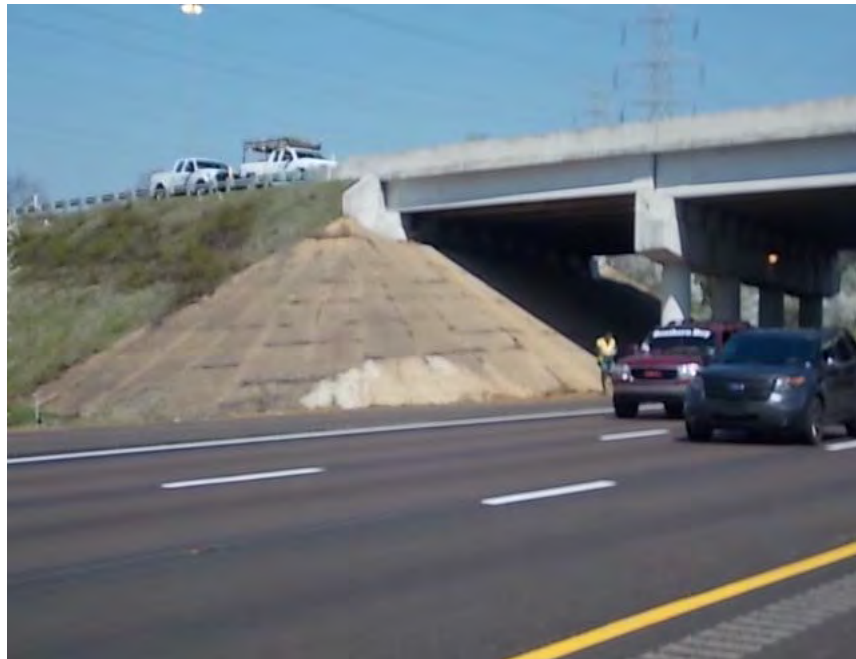


APPROACH # 2 ASPHALT CRACKING AND SPALLED

Bridge Loc. No: 79-SR057-08.18 Date: 03-23-15



ABUTMENT # 2



ABUTMENT # 1

Bridge Loc. No: 79-SR057-08.18

Date: 03-23-15



RIGHT ELEVATION

Bridge Loc. No: 79-SR057-08.18 Date: 03-23-15



ABUTMENT # 1



SPAN # 2 BOTTOM DECK

Bridge Loc. No: 79-SR057-08.18 Date: 03-23-15



SIGN AT SPAN # 2 LEFT SIDE OF BRIDGE



SIGN AT SPAN # 2 LEFT SIDE OF BRIDGE

Bridge Loc. No: 79-SR057-08.18 Date: 03-23-15



LEFT ELEVATION



BENT # 1 FRONT SIDE

Bridge Loc. No: 79-SR057-08.18 Date: 03-23-15



BOTTOM DECK SPAN # 1



BENT # 1 CAP SPALL TO STEEL

Bridge Loc. No: 79-SR057-08.18 Date: 03-23-15



BENT # 1 REAR RISER BLOCKS SPALL TO STEEL



BENT # 1 REAR CAP SPALL TO STEEL

Bridge Loc. No: 79-SR057-08.18 Date: 03-23-15



DIAPHRAGMS SPAN # 2 SPALL TO STEEL AREAS



DIAPHRAGMS SPAN # 2 SPALL TO STEEL AREAS

MAR 23 2015

BRIDGE INSPECTION REPORT

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

Field Report No.: 22 Date: _____
Previous Report No.: 21 Date: 3-4-13
Co. Seq 01 Plans: YES (X) NO ()

Bridge No. 79I02400111 Bridge Location No. 79 - SR057 - 0818 79 - I0240 - 1557 2
Eleven Digit No. Co. Route Log Mile OVER/UNDER PASS

Road Name _____ Feature Intersected _____ CITY _____
Year Constructed 1960 County SHELBY Maint. Dist: 49 Maint.Resp: 02
Year Widened _____ Year Rehabilitated _____

Structure Name (If Named) _____

FEATURES

Wearing Surface Concrete (X) Timber () Asphalt () Depth _____ (in.)
Flared Width Yes () No (X) Median Width Open () None (X) Closed ()
Navigational Control Yes () No (X) 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. Bomar
2. Ellison
3. Greer
4. Jackson
5. _____
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 16'5" (ft.-in.)
Min. Lateral Under Clearance Rt. 10'0" (**.ft.)
Min. Lateral Under Clearance Lt. 11'0" (**.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:

Forms covering bottom deck spans 2&3 to keep conc. from falling on Rdway.

LATITUDE: N35 ° 6.1133

LONGITUDE: W89 ° 52.2216

G.P.S. Location

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

GOOD FAIR POOR CRITICAL

Supervising Bridge Inspector: James Bomar

PERFORMANCE EVALUATION

Time of Day Inspected 11:40 Weather Conditions Clear 650

Vehicles Observed All Types

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	
Joints	G F P C	
Pavement	G F P C	
Embankment	G F P C	
Drains	G F P C	

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) ()	Collision H. Appe #2 (J30)
Guardrail Terminal	G F P C	() ()	cont. Rail

SIGNING

	YES	NO	NEEDED	Weight Limit Posted
Paddleboards	()	(X)	()	YES () NO (X)
Vertical Clearance (<14'-6")	()	(X)	()	Gross..... Tons
NARROW ()	()	(X)	()	2 Axle..... 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. 79 - SR057 - 8.18 -
Co. Route Log Mile

Date _____

DECK

	Rating	Comments
Wearing Surface	G (F) P C	
Deck - Structural Condition	(1) G (F) P C	Span 243 for in Place Concrete not Visible (243)
Curbs	G F P C	
Median	G F P C	
Sidewalks	G F P C	
Parapet	G (F) P C	
Railing	G F P C	
Paint	G F P C	
Drains	(G) F P C	
Lighting Standards	G F P C	
Utilities	G F P C	
Joint Leakage	G (F) P C	
Expansion Joints	G F P (C)	Span #1 Broke/Missing -031

SUPERSTRUCTURE

Bearing Devices	G F P C	
Beams	(G) F P C	
Girders	G F P C	
PCCS	G F P C	
BOLTS (PCCS)	G F P C	
Floor Beams	G F P C	
Stringers	G F P C	
Diaphragms	G F (P) C	Span 2 Spalled -086
Bracing	G F P C	
Trusses - General	G F P C	
Portals	G F P C	
Bracing	G F P C	
Paint	(G) F P C	
Alignment of Members	(G) F P C	

TEXTURE COAT

Condition Rating	G (F) P C	Fading	G (F) P C
Overall Appearance	G (F) P C	Needs Spot Painting	YES () NO (X)
Staining Rating	G (F) P C	Needs Repainting	YES () NO (X)

Comments _____ Scaling Rating (G) F P C

RECOMMENDATIONS: _____ CLEAN SEAL JOINTS ()
 _____ CLEAN DRAINS ()

Form BIR 3.3
(Rev. 9-22-98)
DT-0082

Bridge Location No. 79 - SR057 - 8.18 -
Co. Route Log Mile

Date _____

SUBSTRUCTURE

PILES TO BE
REPLACED

ABUTMENTS

	Rating	Comments	PILE(S)	ABUTMENT
Caps	G <u>F</u> P C	_____	_____	_____
Breastwall	G F P C	_____	_____	_____
Wings	G <u>F</u> P C	_____	_____	_____
Backwall	G <u>F</u> P C	_____	_____	_____
Plumb	<u>G</u> F P C	_____	_____	_____
Footing	G F P C	_____	_____	_____
Piles	G F P C	<i>NO</i>	_____	_____
Embankment	<u>G</u> F P C	_____	_____	_____
Bearing	<u>G</u> F P C	_____	_____	_____
Slope Paving	<u>G</u> F P C	_____	_____	_____
Rip Rap	G F P C	_____	_____	_____
Earthquake Devices	<u>G</u> F P C	_____	_____	_____

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	_____	_____	_____
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 & Risers	G F <u>P</u> C	<i>128/123 Bent #1 Spilled ①</i>	_____	_____
Columns	<u>G</u> F P C	_____	_____	_____
Plumb	<u>G</u> F P C	_____	_____	_____
Footings	G F P C	_____	_____	_____
Piles	G F P C	_____	_____	_____
Bearing	<u>G</u> F P C	_____	_____	_____
Bracing <i>Parapet</i>	G <u>F</u> P C	_____	_____	_____
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 03-23-15
Bridge Rating POOR

THIS 4 SPAN CONCRETE I BEAM WITH BRIDGE RAILS AND
GUARDRAILS.
TOP DECKS CONCRETE HAS HAIRLINE CRACKS; SPAN # 1 JOINT
HEADER IS BROKEN, SPALLED AND MISSING.
SUBSTRUCTURE CONCRETE WITH FINE CRACKS AND BENT # 1 CAP IS
SPALLED TO STEEL VISABLE.
RISER BLOCKS ARE SPALLED AT BENT # 1.
SUPERSTRUCTURE CONCRETE BOTTOM DECK HAS CRACKS AND
PATCHED AREAS ON SPANS # 1 AND # 4.
SPANS # 2 AND # 3 NOT VISABLE BEEN COVERED WITH WOODEN
FORMS TO KEEP CONCRETE FROM FALLING ON ROADWAY.

LOW CLEARANCE 16'5".

DENNIS BOMAR

INSPECTOR

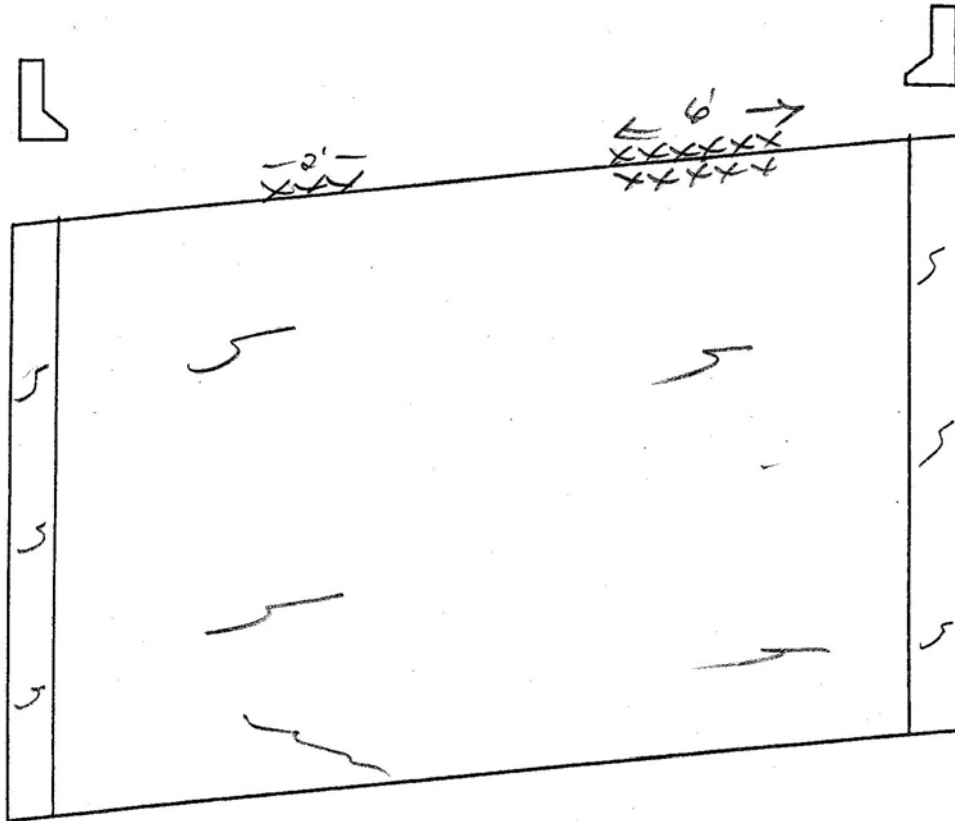
CROSS SECTION: YES () NO (X) PONTIS: YES (X) NO ()

MAR 23 2015

79-57-8.18

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

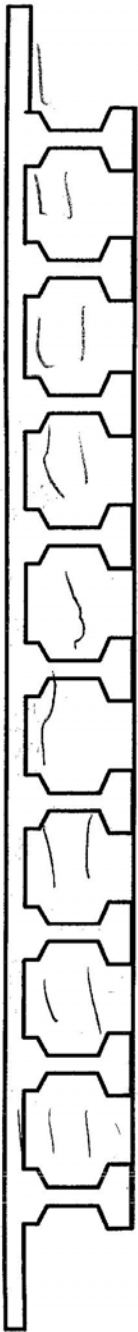
SPAN. NO. 1



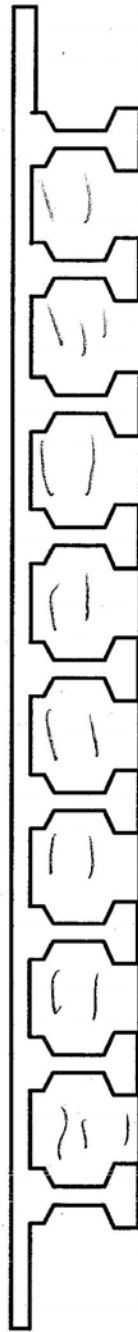
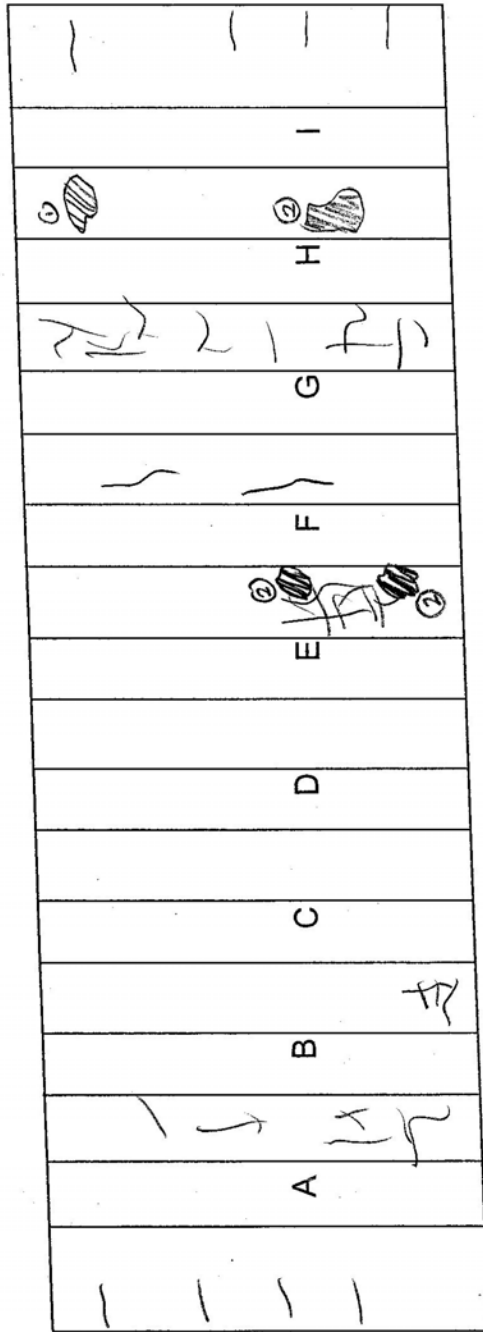
ELEMENT	RATING	COMMENT
TOP DECK	G (F) P C	Hairline Cracks
PARAPET	G (F) P C	Fine Cracks
DRAINS	(G) F P C	
JOINTS	G F P (C)	Broken/Missing
	G F P C	

MAR 23 2015

Bridge No. 79-57-8.18 SKEW RL _____ Span No. 1



LOOKING AHEAD



LOOKING BACK

ELEMENT	RATING	COMMENTS
BOTTOM DECK	G(F)P C	HAIRLINE, FINE CRACKS
CONC. I BEAM	G(F)P C	HAIRLINE CRACKS w/EFF
A --- I	G(F)P C	HAIRLINE CRACKS w/EFF
BACKWALLS	G(F)P C	HAIRLINE CRACKS w/EFF
DIA.	G(F)P C	HAIRLINE CRACKS w/EFF

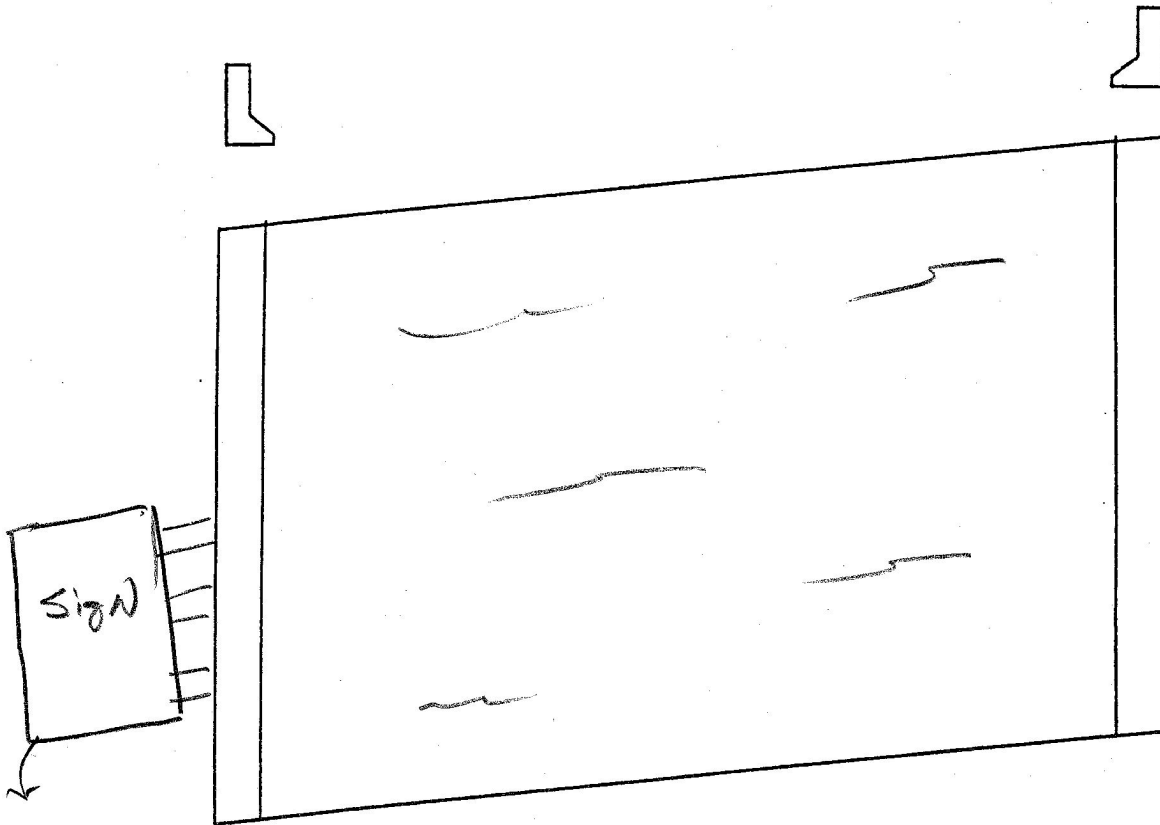
① FORM LEFT IN PLACE
② PATCHED AREA

79-57-8.18

MAR 23 2015

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

SPAN. NO. 2



79102400011560
79 SIGN 001453

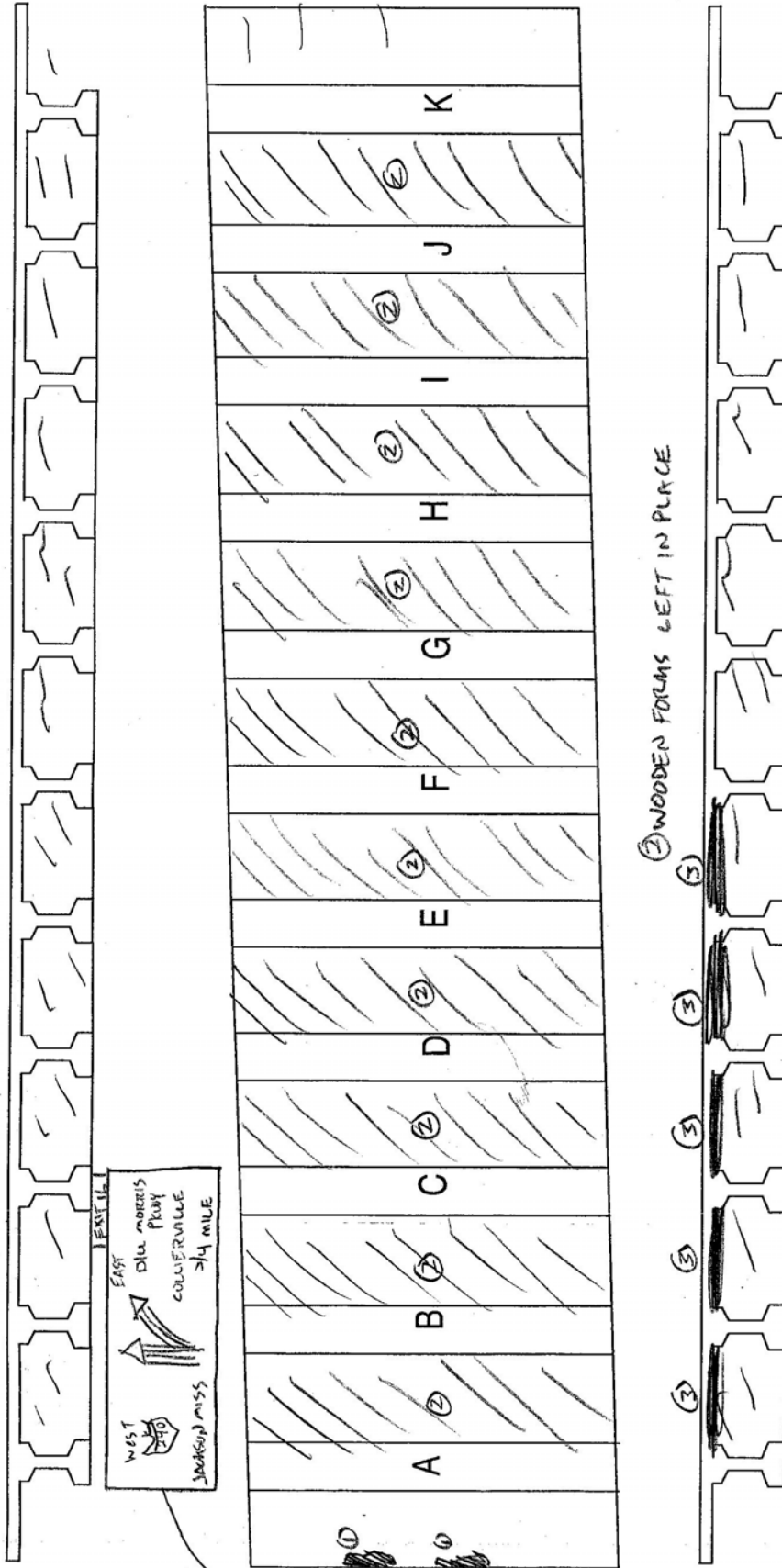
ELEMENT	RATING	COMMENT
TOP DECK	G <u>F</u> P C	Hairline Cracks
PARAPET	G <u>F</u> P C	five Cracks
DRAINS	G F P C	N/A
JOINTS	G <u>F</u> P C	settle & (light debris)
Sign	<u>G</u> F P C	

MAR 23 2015

Bridge No. 79-57-8.18

SKEW

Span No. 7



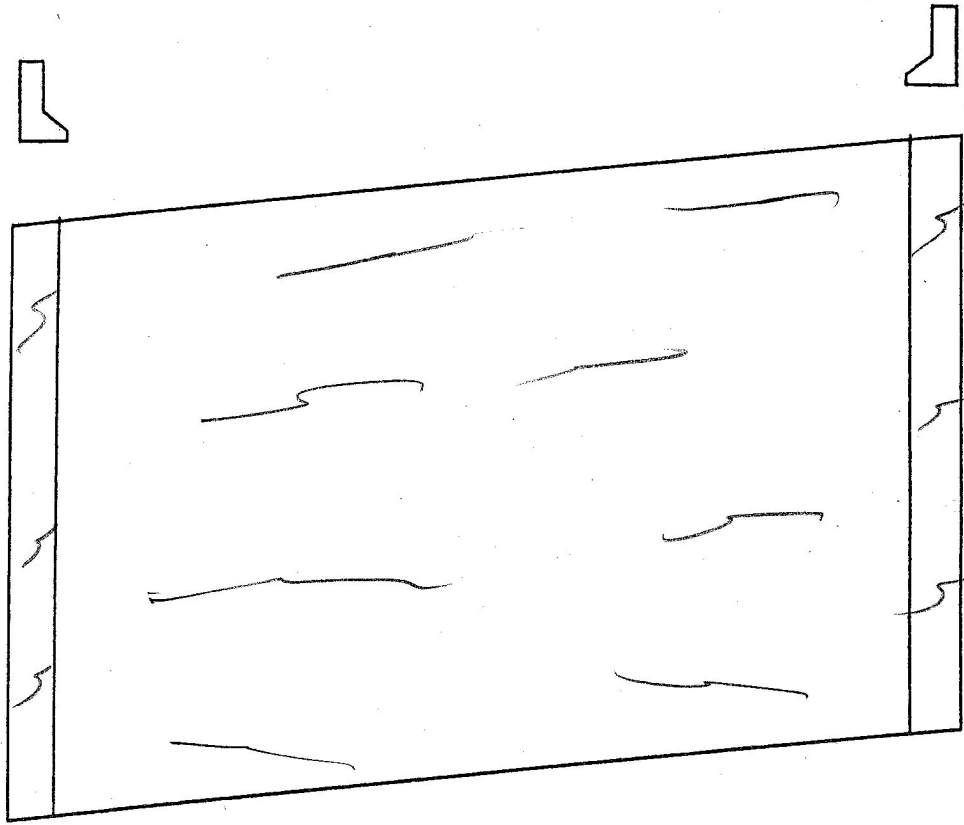
ELEMENT	RATING	COMMENTS
BOTTOM DECK	G (F) C	SPACING 10' x 4" x 1" DECK
CONC. I BEAM A --- K	G (F) P C G (F) P C G F P C G F P C G F (P) C	
BACKWALLS		N/A
DIA.		HAIRLINE CRACKS W/ EFF. SPALL TO STEEL UP TO 4.0' W X 1.0' X 5" DEEP (S)

MAR 23 2015

79-57-8.18

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

SPAN. NO. 3



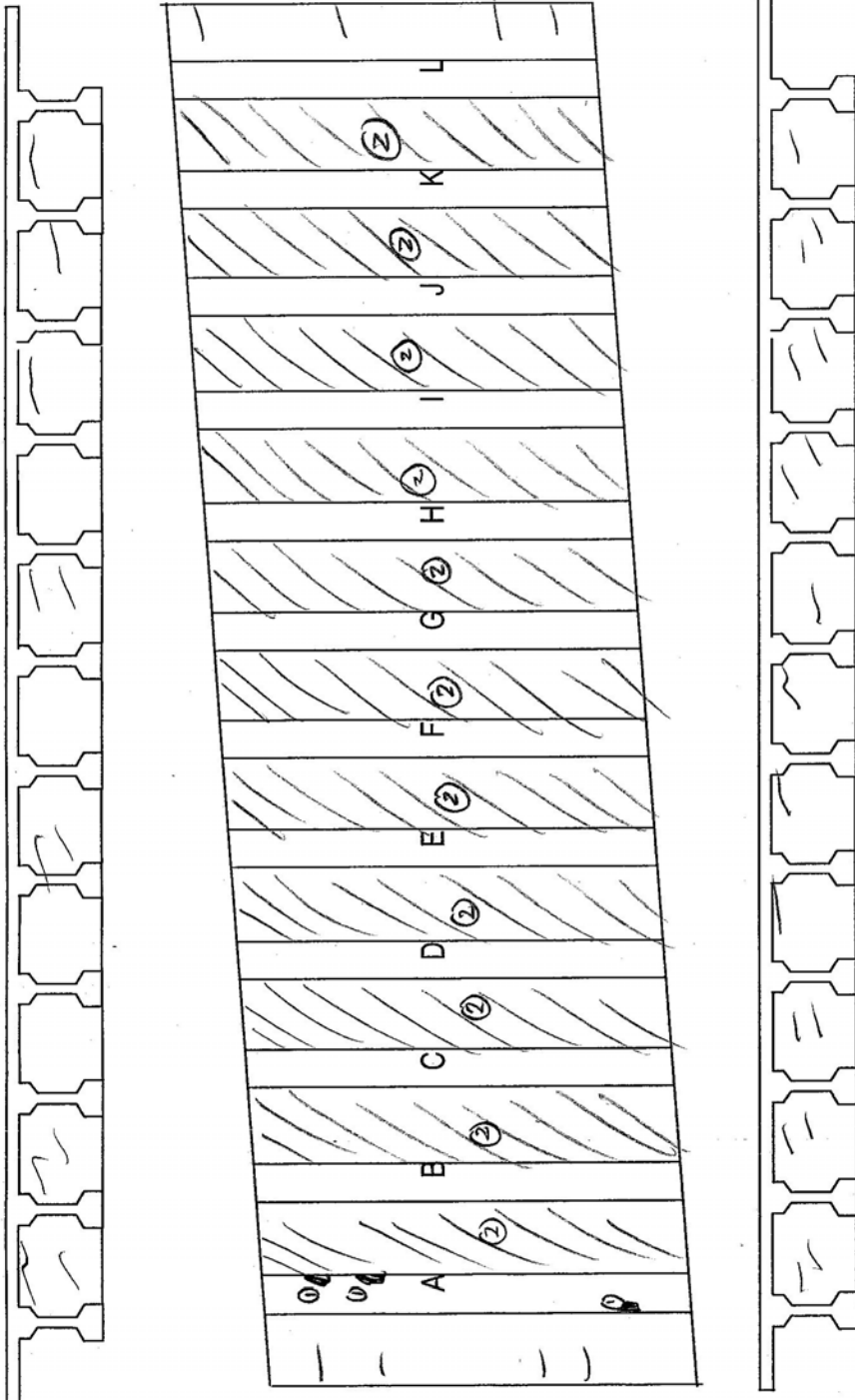
ELEMENT	RATING	COMMENT
TOP DECK	G F P C	Hairline Cracks
PARAPET	G F P C	Five Cracks
DRAINS	G F P C	N/A
JOINTS	G F P C	settled 1/4 with ligh debris
	G F P C	

MAR 23 2015

Bridge No 79-57-8.18

SKEW

Span No. 3



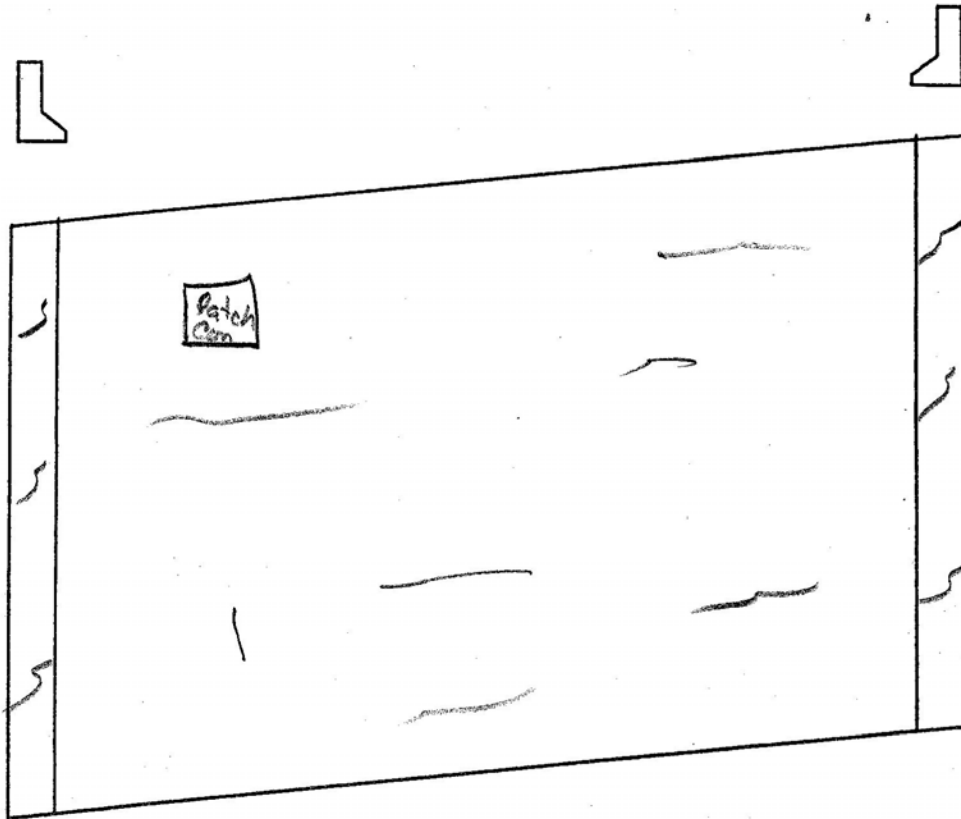
ELEMENT	RATING	COMMENTS
BOTTOM DECK	GⒺP C	HAIRLINE CRACKS, ② WOODEN FORMS LEFT IN PLACE
CONC. I BEAM	GⒻP C	② CHIPPED AREA 8" LX 4" H X 1" D
A ---	ⒸF P C	n/a
B - L	G F P C	HAIRLINE CRACKS w/ EFF
BACKWALLS	G F P C	
DIA.	GⒺP C	
EQ	Ⓒ	

MAR 23 2015

79-57-8.18

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

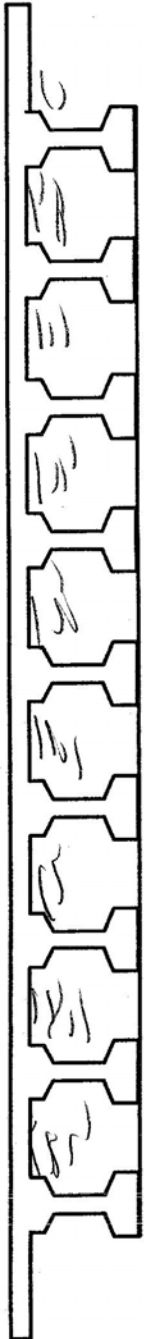
SPAN. NO. 4



ELEMENT	RATING	COMMENT
TOP DECK	G ⊕ P C	Hair line Cracks
PARAPET	G ⊕ P C	Fine Cracks
DRAINS	G F P C	N/A
JOINTS	G F P C	N/A
	G F P C	

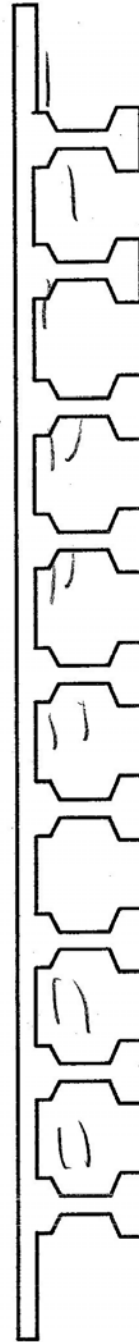
MAR 23 2015

Bridge No. 79-57-8.18 SKEW R/L _____ Span No. 4



LOOKING AHEAD

	A	B	C	D	E	F	G	H	I



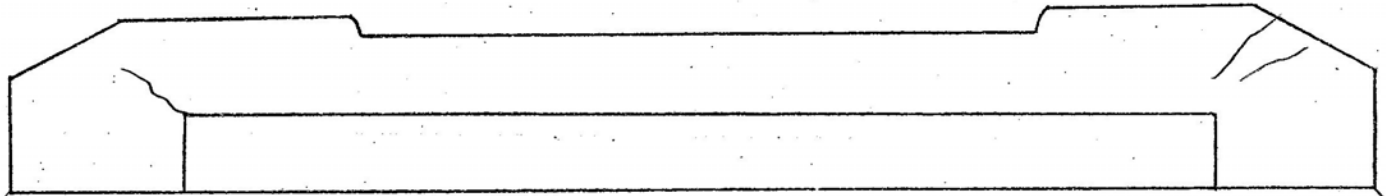
LOOKING BACK

ELEMENT	RATING	COMMENTS
BOTTOM DECK	GⒺP C	① PATCHED AREA ② SPALL TO STEEL 2'0" X 6" X 1'0" ③ SPALL TO STEEL 1'0" DIA. X 1'0"
CONC. I BEAM A --- I	Ⓒ G F P C	
	G F P C	
	G F P C	
	G F P C	
BACKWALLS	GⒺP C	HAIRLINE, FINE CRACKS
DIA.	GⒺP C	HAIRLINE CRACKS

BR. NO. 79 57 0.18

ABUT. NO. 1

MAR 23 2015



LOOKING BACK

SLOPE PAVEMENT

ELEMENT	RATING	COMMENT
BEARINGS	G F P C	
CAP	G F P C	
PILING	G F P C	N/A
WINGS	G F P C	HAIRLINE CRACKS
VEG.	G F P C	
EMBANKMENT	G F P C	
RIP-RAP	G F P C	N/A
SLOPE PAVING	G F P C	
E. Q.	G F P C	

MAR 23 2015

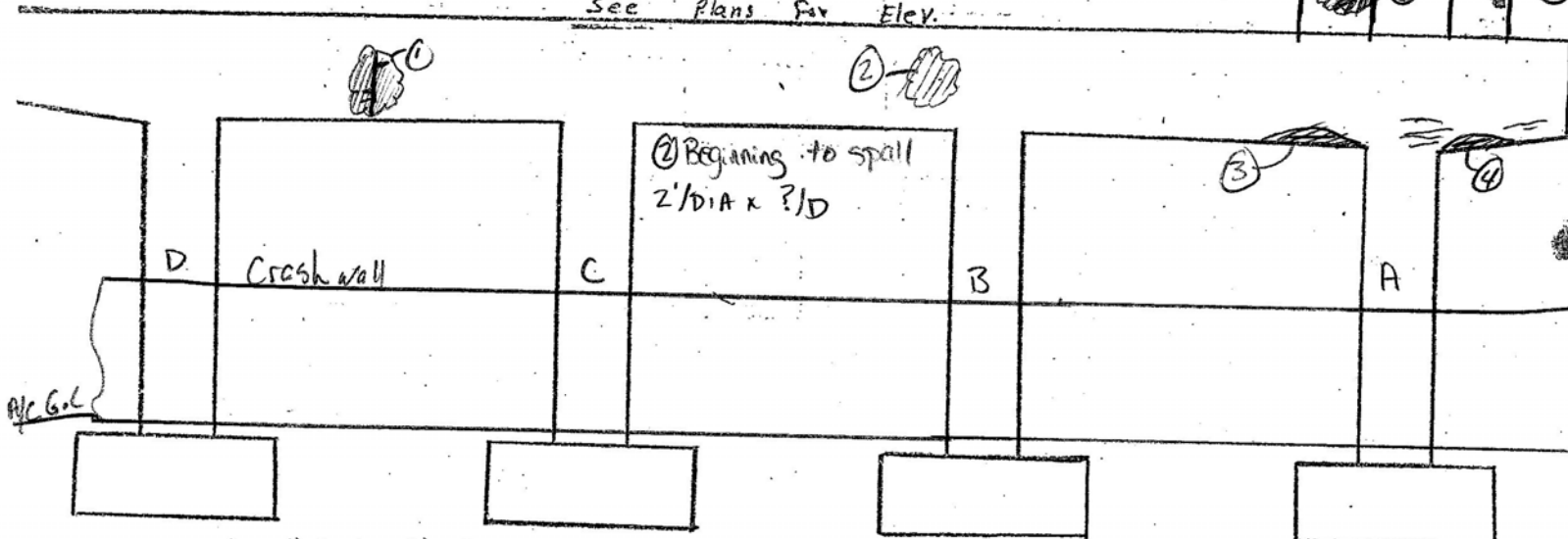
BRIDGE NO. 79 757 B.18

BENT NO. 1

C.I.B
"B"

C.I.B
"A"

See Plans for Elev.



Spalled to steel
2' DIA x 2"/D

LOOKING BACK

Spalled to steel
3' x 1/4" x 4"/D / Spalled to steel
2' x 5/4" x 3"/D

ELEMENT		RATING	COMMENT
BEARING		(G) F P C	
CAP		G F (F) C	see (1), (2), (3), (4) & Fine Cracks
COLUMN	A	(G) F P C	
	B	(G) F P C	
	C, D	(G) F P C	
Riser Blocks		G F (F) C	see (5) & (6)
FOOTING		G F P C	N-Y
E.Q.		(G) F P C	

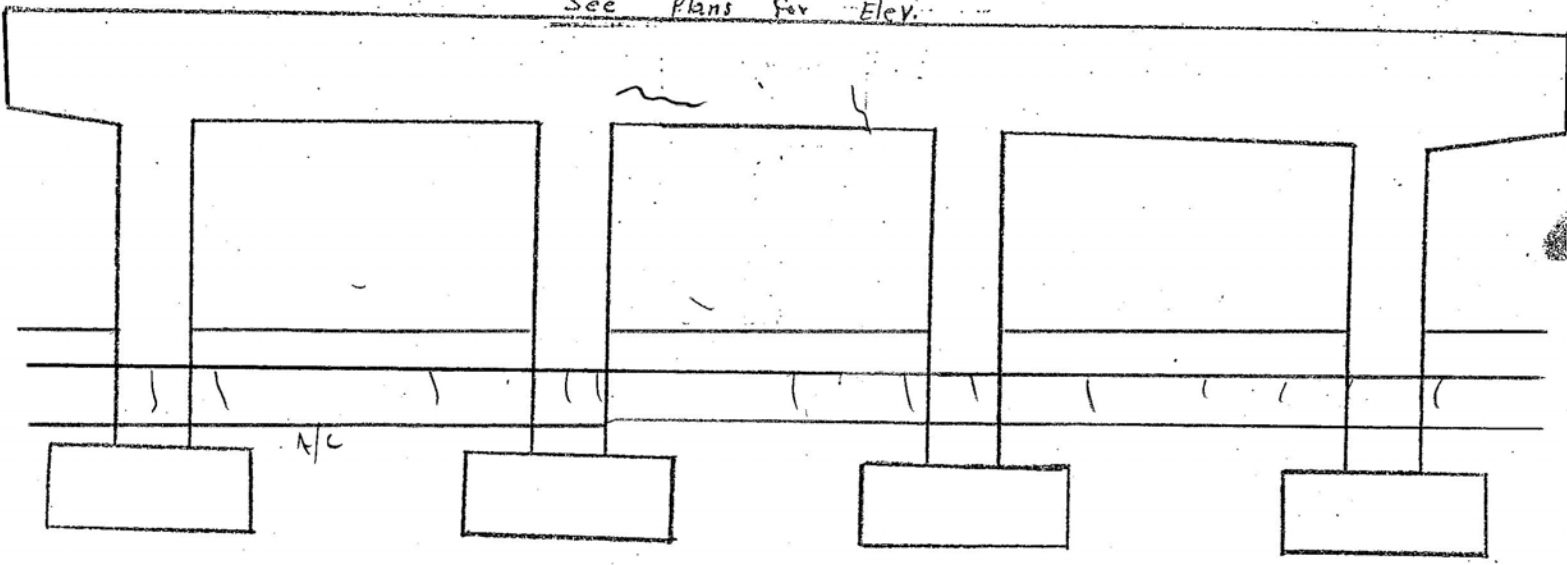
(5) spalled
2' w x 18" H x 5"/D
(6) spalled 2' x 1/4" x 3"/D

BRIDGE NO. 79 51 0.18

MAR 23 2015

BENT NO. 2

See Plans for Elevation



LOOKING AHEAD

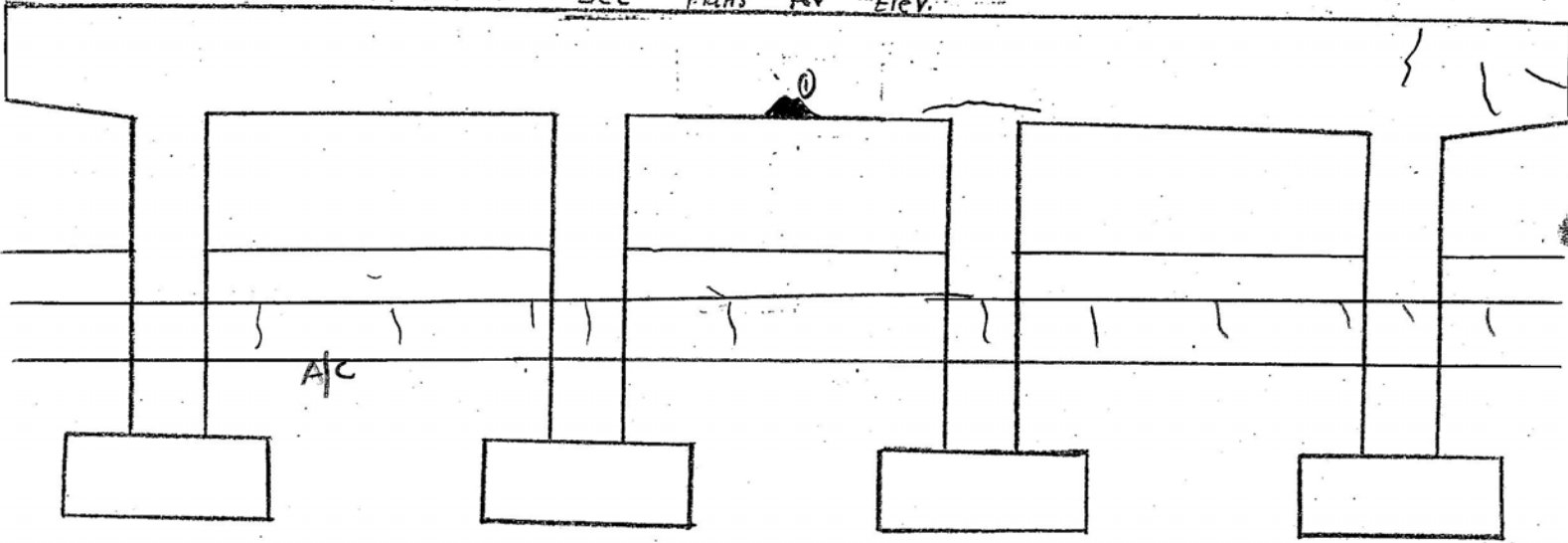
ELEMENT	RATING	COMMENT
BEARING	(G) F P C	
CAP	G (F) P C	FINE CRACKS
COLUMN	A (G) F P C	
	B (G) F P C	
	C (G) F P C	
FOOTING	G F P C	N/U
Riser Blocks	(G) F P C	
E. Q	(G) F P C	
PARAPET	(E)	FINE CRACKS

BRIDGE NO. 79 57 0.18

MAR 23 2015

BENT NO. 2

See Plans for Elev.



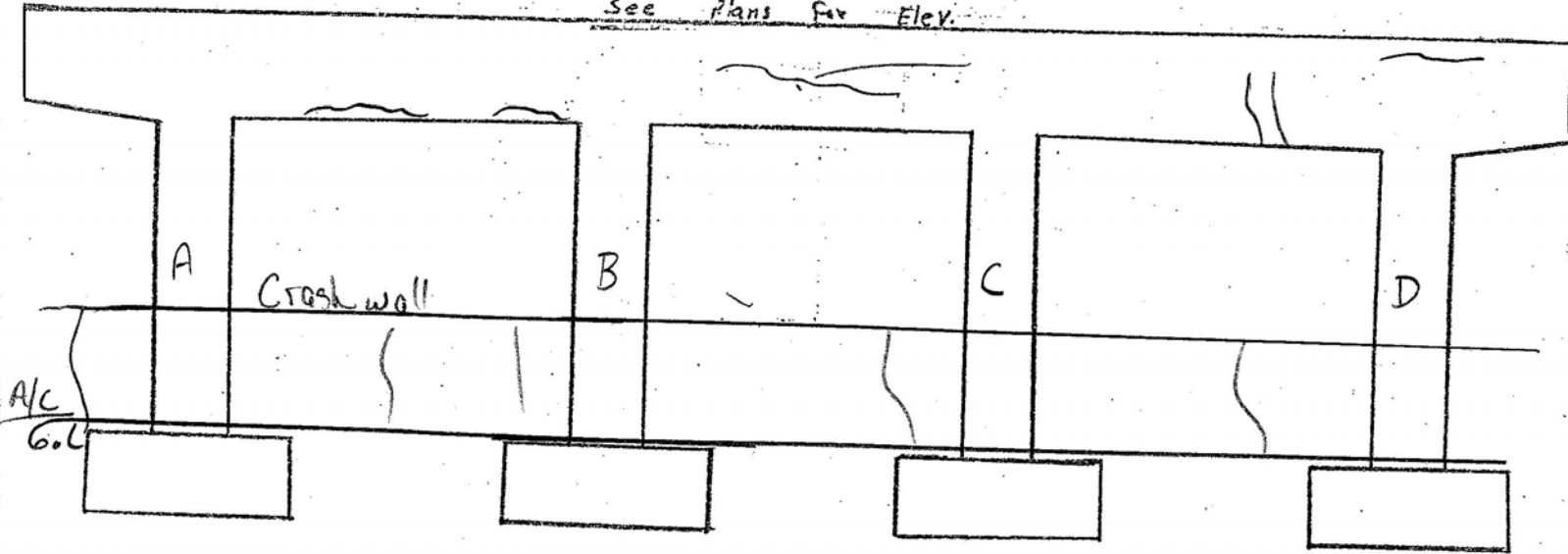
LOOKING BACK

ELEMENT		RATING	COMMENT
BEARING		(G) F P C	
CAP		G (F) P C	SPALL AREA 1.0' W X 1.0' H X 3" D, FINE CRACKS
COLUMN	A	(G) F P C	
	B	(G) F P C	
	C	(G) F P C	
PARAPET		(F)	HAIRLINE, FINE CRACKS
FOOTING		G F P C	NV
Riser Blocks		G (F) P C	HAIRLINE CRACKS
E. Q		(G) F P C	

BRIDGE NO. 79 52 8.18

BENT NO. 3 MAR 23 2015

See Plans for Elev.



LOOKING Ahead

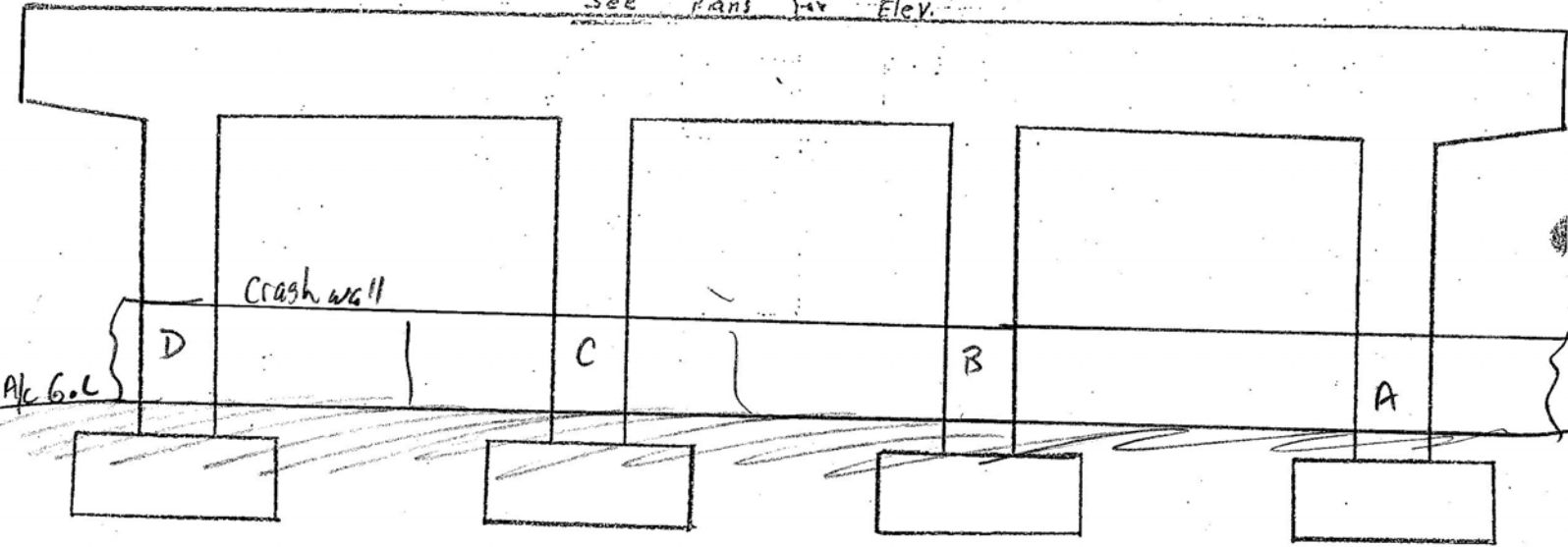
ELEMENT		RATING	COMMENT
BEARING		(G) F P C	
CAP		G (F) P C	fine Cracks
COLUMN	A	(G) F P C	
	B	(G) F P C	
	C	(G) F P C	
FOOTING		G F P C	n.v
Riser Blocks		(G) F P C	
E. Q.		(G) F P C	
Crashwall		(F)	fine Cracks

BRIDGE NO. 79 57 8.18

MAR 23 2015

BENT NO. 3

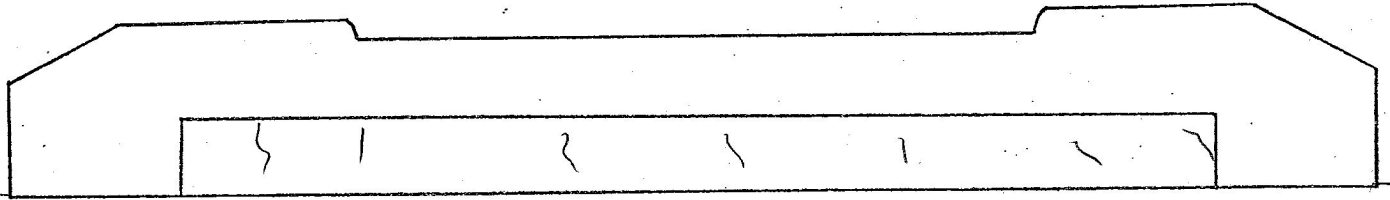
See Plans for Elev.



LOOKING Back

ELEMENT		RATING	COMMENT
BEARING		(G) F P C	Pads
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	N-V
Riser Blocks		(G) F P C	
E. Q.		(G) F P C	
Crash wall		(E)	fine cracks

MAR 23 2015



RET WALL

BREASTWALL

LOOKING Ahead

ELEMENT	RATING	COMMENT
BEARINGS	G F P C	
CAP	G F P C	HAIRLINE, 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	N/A
SLOPE PAVING	G F P C	N/A
E. Q.	G F P C	
BREASTWALL	G	
RET WALL	G	



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

Underpass Condition Coding Form

Revised 03/24/2015

County: 79

Route: I0240

Special Case: 0

County Sequence: 1

Bridge Number: 79I024001112
(Includes Item 5A)

Feature Intersected: SR-57 E.B. / I-240

Log Mile: 15.57

CODE ONLY THOSE VALUES WHICH HAVE CHANGED

ITEM #	DESCRIPTION	VALUE	UNDERPASS SAFETY FEATURES
90	LAST INSPECTION DATE	03/23/2015	
	EARLIEST DATE OF NEXT REGULAR INSPECTION	01/21/2017	515 (A) TYPE UNDERPASS BARRIER COMBINATION OF METAL & CONCRETE BARRIER OR RAIL
		/ /	
10	MINIMUM V.C. OVER DECK (ROADWAY + SHOULDERS)	16 FT. 5 IN.	Revised Barrier Type
		_____ FT. _____ IN.	(B) ADEQUACY OF BARRIER OR RAIL 1
520	MINIMUM V.C. OVER DECK (EXCLUDES SHOULDERS)	16 FT. 5 IN.	(C) ADEQUACY OF TRANSITIONS 0
		_____ FT. _____ IN.	(D) ADEQUACY OF TERMINALS 0
47	TOTAL HORIZONTAL UNDERCLEARANCE	65 FT. 6 IN.	
		_____ FT. _____ IN.	
54	MINIMUM VERTICAL UNDERCLEARANCE (EXCLUDES SHOULDERS)		554 VERTICAL CLEARANCE LISTED ON HEIGHT POSTING
	Circle One: H R _____ FT. _____ IN.		FT. IN.
55	MINIMUM LATERAL UNDERCLEARANCE ON RIGHT SIDE		_____ FT. _____ IN.
	Circle One: H R _____ 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 E.B. / I-240

FED. BRIDGE NO.: 79I02400111

MAINT. DIST.: 79

REPAIR LIST NO.: N

DATE ADDED:

REVISED: 03/23/2015

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:	03/23/2015	GENERAL CONDITION:	POOR
EVALUATION DATE:	03/06/2013	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) ①

Divided Highway LEFT RDWY RIGHT RDWY () N.A. ()
Type of Wearing Surface CONCRETE () ASPHALT 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 62 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: 16 ft. 5 in.
*Show on Sketch

TRAFFIC SAFETY FEATURES FOR UNDERPASS ROUTE

		STANDARD	SUB-STANDARD	NON EXIST
Pier Protection Railing or Parapet	G <input checked="" type="checkbox"/> P C	(X)	()	()
Approach Guardrail Transitions	G F P C	()	()	(X)
Approach Guardrail Parapet	G <input checked="" type="checkbox"/> P C	(X)	()	()
Approach Guardrail Terminal	G <input checked="" type="checkbox"/> P C	(X)	()	()

SIGNING FOR UNDERPASS ROUTE

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

INSPECTORS

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

Bridge No. 79I02400111 Underpass Location No. 79 - SR057 - 0818 -
 Eleven Digit No. Co. Route Log Mile
 _____ or _____ over/under _____
 Railroad/Walkway Co. Route Log Mile Co. Route Log Mile
 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 0.5 ft. Right 0.5 ft. Left
 *Width of Sidewalk Under Bridge _____ ft. Right _____ ft. Left
 *Minimum Vertical Clearance: 16 ft. 4 in.
 *Show on Sketch

TRAFFIC SAFETY FEATURES FOR UNDERPASS ROUTE

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

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 _____

INSPECTORS

1. Ellison
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. _____ Over/Under _____
Eleven Digit No. _____ Co. Route Log Mile Co. Route Log Mile
or _____ or _____
Railroad/Walkway _____ Co. Route Log Mile Co. Route Log Mile

County _____ Road Name: _____
Year Constructed _____ Structure Name (If Named) _____
Year Widened _____ Year Rehabilitated _____

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

③

Divided Highway LEFT RDWY () RIGHT RDWY () N.A. (X)
Type of Wearing Surface CONCRETE () ASPHALT () GRAVEL ()
Width of Approach Traveled Roadway 13 ft. (Does Not Include Shoulders)
Width of Median if Divided Highway 17 ft.
Approach Shoulder Width 11.6 ft. Right 2 ft. Left
*Horizontal Clearance Under Bridge 32 ft. 0 in.
*Distance Between Pier Protection Guardrail and Substructure 0.5 ft. Right 0.5 ft. Left
*Width of Sidewalk Under Bridge _____ ft. Right _____ ft. Left
*Minimum Vertical Clearance: 17 ft. 6 in.
*Show on Sketch

TRAFFIC SAFETY FEATURES FOR UNDERPASS ROUTE

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

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 _____

INSPECTORS

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

Form BIR 3.0A (Continued)

Date _____

(Rev. 9-22-98)

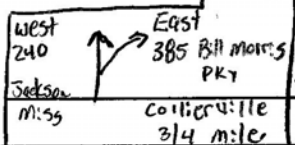
DT-1443

Exit 16

Underpass Location No. 79 - SR057 - 0818 -

Co. Route Log Mile

Other Signs or Plaques:



← Sign is Attached to Span # 2 Lt
Side over I240 South

Comments Regarding any Problems with Signing: _____

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 P C

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

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

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

span # 2 spalled over Roadway. (S.O.B)

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

MAR 23 2015

BIR 3.10
Rev. 06/22/01
ET-1510

BRIDGE LOC. NO. 79 SR057 0818
CO. ROUTE L. M. L/R

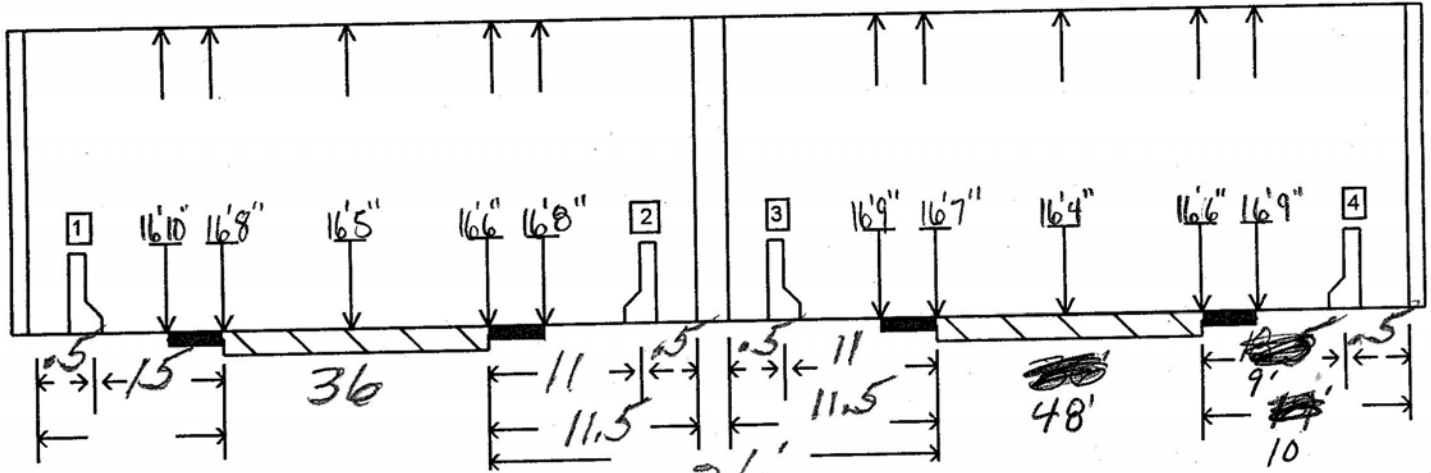
DATE: _____

Lt

LATERAL AND VERTICAL CLEARANCES

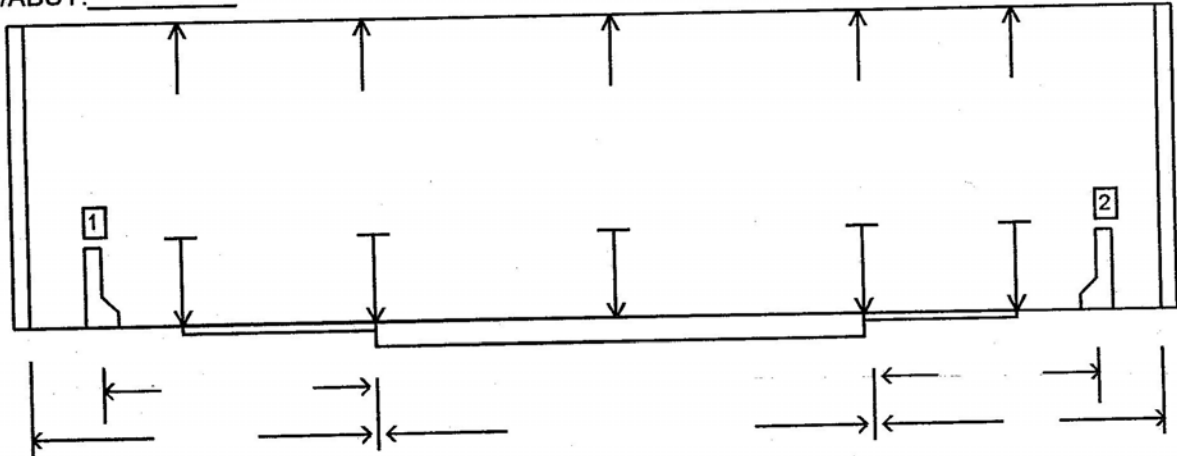
Rt

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

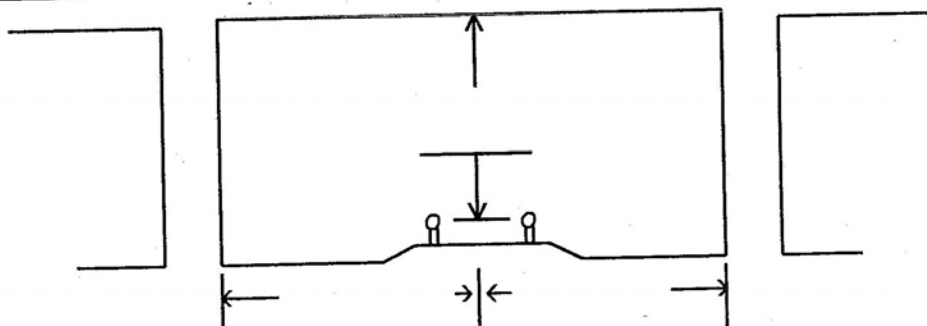


- | | | | | | | |
|-----------------------|---------|--------------------------|---------------|--------------------------|------|--------------------------|
| 1. RAIL/BARRIER TYPE: | W-SHAPE | <input type="checkbox"/> | CONC. BARRIER | <input type="checkbox"/> | NONE | <input type="checkbox"/> |
| 2. RAIL/BARRIER TYPE: | W-SHAPE | <input type="checkbox"/> | CONC. BARRIER | <input type="checkbox"/> | NONE | <input type="checkbox"/> |
| 3. RAIL/BARRIER TYPE: | W-SHAPE | <input type="checkbox"/> | CONC. BARRIER | <input type="checkbox"/> | NONE | <input type="checkbox"/> |
| 4. RAIL/BARRIER TYPE: | W-SHAPE | <input type="checkbox"/> | CONC. BARRIER | <input type="checkbox"/> | NONE | <input type="checkbox"/> |

BENT/ABUT. _____ BENT/ABUT. _____



BENT/ABUT. _____ BENT/ABUT. _____



BRIDGE LOC. NO. _____

DATE: _____

CO. ROUTE L. M. L/R
LATERAL AND VERTICAL CLEARANCES

or _____

or _____

Co. Route Log Mile

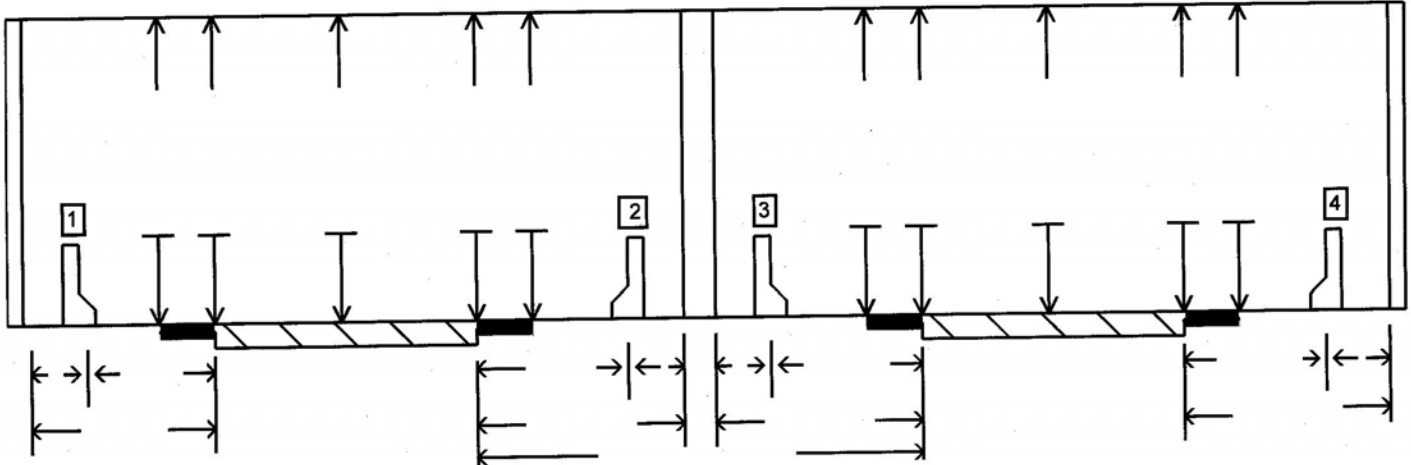
Co. Route Log Mile

Co. Route Log Mile

BENT/ABUT. _____

BENT _____

BENT/ABUT. _____

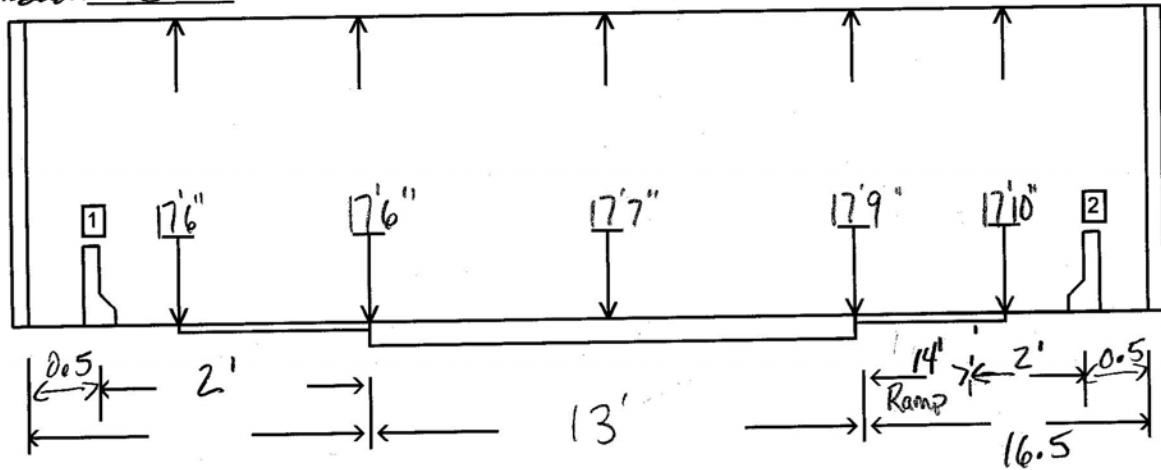


- | | | | | | | | |
|----|--------------------|---------|-----|---------------|-----|------|-----|
| 1. | RAIL/BARRIER TYPE: | W-SHAPE | [] | CONC. BARRIER | [X] | NONE | [] |
| 2. | RAIL/BARRIER TYPE: | W-SHAPE | [] | CONC. BARRIER | [X] | NONE | [] |
| 3. | RAIL/BARRIER TYPE: | W-SHAPE | [] | CONC.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

③

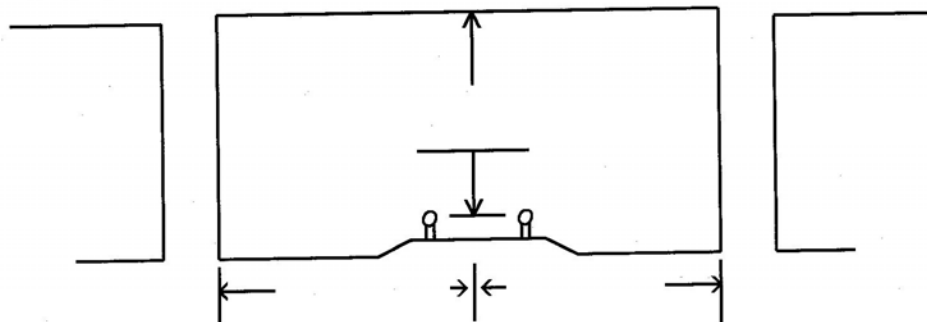
BENT/ABUT. 3

BENT/ABUT. 2



BENT/ABUT. _____

BENT/ABUT. _____



MAR 23 2015

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

Direction of Route
→

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

Measured on Rt. Side

