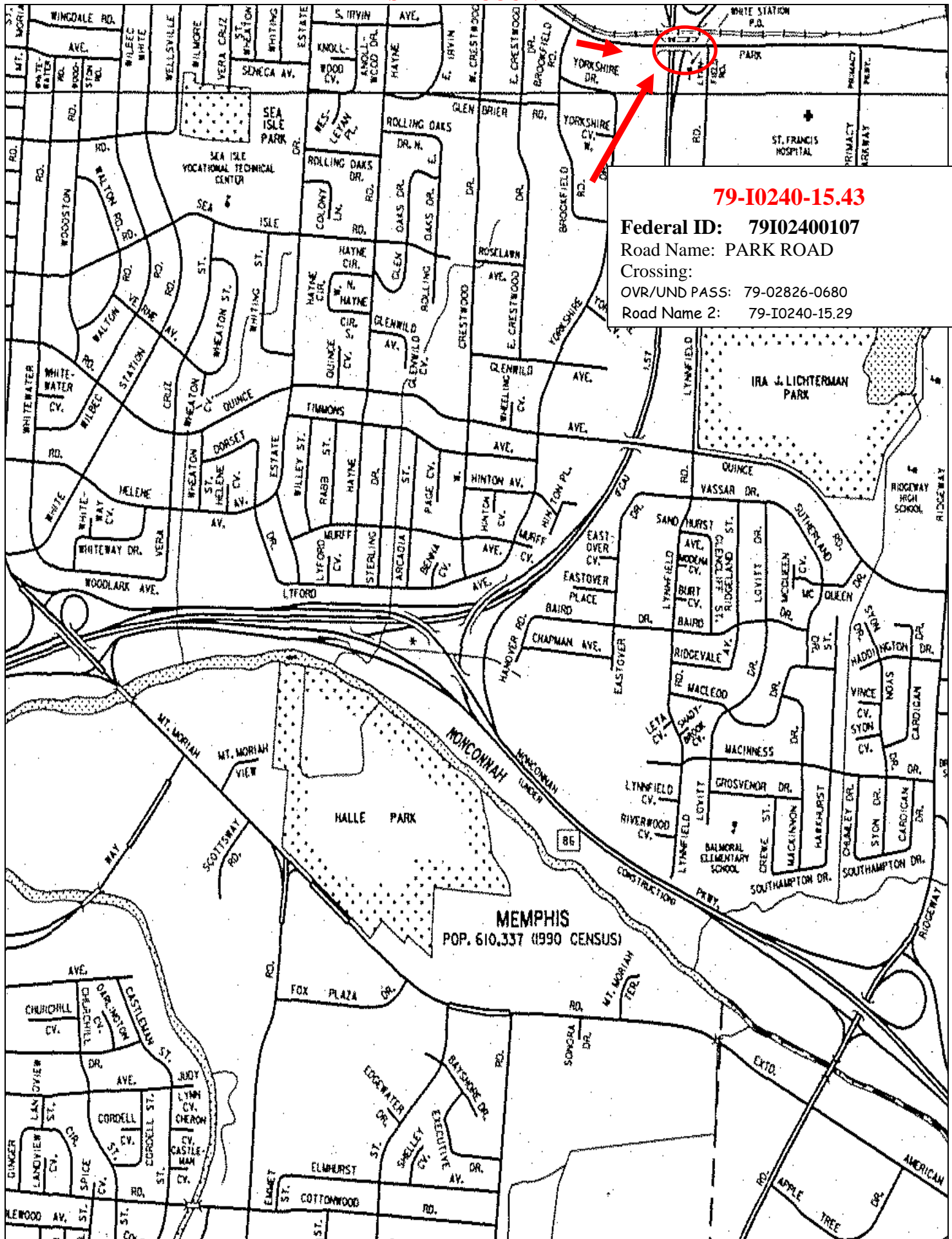


SHELBY COUNTY



BRIDGE MAINTENANCE RECOMMENDATIONS

COUNTY: SHELBY

LOCATION: 79-I0240-15.43-

CO. SEQ.: 1 SPEC. CASE: 0

MILEPOST: 15.73

CROSSING: PARK AVE / I240

FED. BRIDGE NO.: 79I02400107

MAINT. DIST.: 79

Tennessee Department
of Transportation

REPAIR LIST NO.: N

DATE ADDED:

REVISED: 02/19/2013

FACILITY CARRIED:	FAU 2826	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):	291
BRIDGE WIDTH (OUT TO OUT):	N/A FT IN	MAXIMUM SPAN LENGTH (FT):	74
APPROACH ROADWAY (W/SHOULDERS):	200 FT 1 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: 02/19/2013

GENERAL CONDITION: FAIR

EVALUATION DATE: 04/18/2011

STRUCTURALLY DEFICIENT:

PPRM PIN NUMBER:

H TRUCK RATING @ INV.: TONS

SUFFICIENCY RATING:

SUGGESTED ROUTINE MAINTENANCE AND COMMENTS

CLEAN AND SEAL ROADWAY EXPANSION JOINTS.

CUT VEGETATION

GENERAL COMMENTS:

02-19-2013 UNDERPASS UNDER CONSTRUCTION.



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

Bridge Condition Coding Form

Revised 02/20/2013

Bridge Number: 79I024001071
(Includes Item 5A)

Feature Intersected: PARK AVE / I240&I240-RP

Evaluation Status: CONDITION ITEM CHANGE

County: 79

Route: 02826

Special Case: 0

County Sequence: 1

Log Mile: 6.80

CODE ONLY THOSE VALUES WHICH HAVE CHANGED

ITEM # DESCRIPTION

VALUE

CONDITION CODING GUIDELINES

90 LAST INSPECTION DATE
EARLIEST DATE OF
NEXT
REGULAR INSPECTION

02/19/2013

12/21/2014

/ /

(Values for Coding Items 58, 59, 60 and 62)

N NOT APPLICABLE

10 MINIMUM V.C. OVER
DECK
(ROADWAY + SHOULDERS)

99 FT. 99 IN.
____ FT. ____ IN.

520 MINIMUM V.C. OVER DECK
(EXCLUDES SHOULDERS)

99 FT. 99 IN.
____ FT. ____ IN.

36 TRAFFIC SAFETY FEATURES

Br. Rail	Trans.	Appr. Rail	Terminal	SPEED LIMIT
1	1	1	1	40

41 STRC OPEN/CLOSED/POSTED
A K P

A

58 DECK

6

59 SUPERSTRUCTURE

7

60 SUBSTRUCTURE

6

61 CHANL/CHANL PROTECTION

N

62 CULVERT AND RETAIN WALL

N

71 WATERWAY ADEQUACY

N

72 APPROACH RDWY ALIGNMENT

8

521 OVERALL CONDITION

FAIR

16 LATITUDE 17 LONGITUDE
N 35° 5.9800' W 89° 52.1650'

TEAM LEADER SIGNATURE

/ /
REVIEW DATE

9 EXCELLENT CONDITION

8 VERY GOOD CONDITION - NO
PROBLEMS NOTED.

7 GOOD CONDITION - SOME MINOR PROBLEMS.

6 SATISFACTORY CONDITION - MINOR
DETERIORATION OF STRUCTURAL
ELEMENTS.

5 FAIR CONDITION - ALL PRIMARY
STRUCTURAL ELEMENTS ARE SOUND BUT
MAY HAVE MINOR SECTION LOSS,
CRACKING, SPALLING OR SCOUR.

4 POOR CONDITION - ADVANCED SECTION
LOSS, DETERIORATION, SPALLING OR
SCOUR.

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.

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.

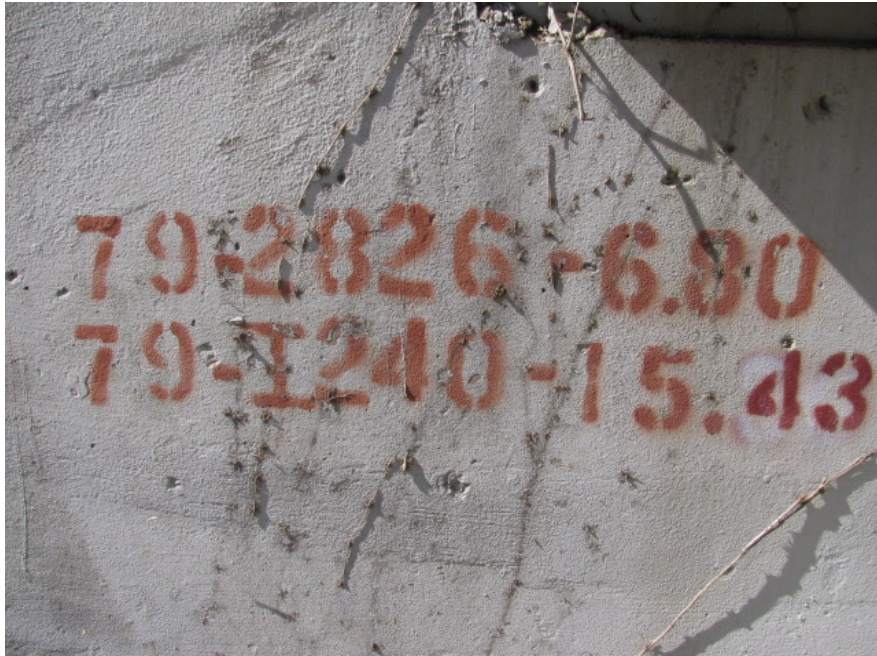
1 "IMMINENT" FAILURE CONDITION - MAJOR
DETERIORATION OR SECTION LOSS
PRESENT IN CRITICAL STRUCTURAL
COMPONENTS OR OBVIOUS VERTICAL OR
HORIZONTAL MOVEMENT AFFECTING
STRUCTURAL STABILITY. BRIDGE IS
CLOSED TO TRAFFIC BUT CORRECTIVE
ACTION MAY PUT IT BACK IN LIGHT SERVICE.

0 FAILED CONDITION - OUT OF SERVICE AND
BEYOND CORRECTIVE ACTION.

Photographs

Bridge ID#: 79-I0240-15.43

Date: 02/19/2013



NUMBER ON BOTTOM



NUMBER ON TOP

Photographs

Bridge ID#: 79-I0240-15.43

Date: 02/19/2013



SPAN 1 JOINT MATERIAL PEELING(TYPICAL SPAN 5 JOINT)



DIRECTION OF ROUTE

Photographs

Bridge ID#: 79-I0240-15.43

Date: 02/19/2013



LOOKING RIGHT



VIEW ACROSS DECK

Photographs

Bridge ID#: 79-I0240-15.43

Date: 02/19/2013



LOOKING LEFT



OPPOSITE DIRECTION OF ROUTE

Photographs

Bridge ID#: 79-I0240-15.43

Date: 02/19/2013



ABUTMENT 2



SPAN 5 BOTTOM

Photographs

Bridge ID#: 79-I0240-15.43

Date: 02/19/2013



BENT 4 REAR



BENT 4 REAR

Photographs

Bridge ID#: 79-I0240-15.43

Date: 02/19/2013



LEFT ELEVATION(TRAFFIC UNDER SPAN 2&3)



LEFT ELEVATION(TRAFFIC UNDER SPAN 2&3)

Photographs

Bridge ID#: 79-I0240-15.43

Date: 02/19/2013



LEFT ELEVATION(TRAFFIC UNDER SPAN 2&3)



LEFT ELEVATION(TRAFFIC UNDER SPAN 2&3)

Photographs

Bridge ID#: 79-I0240-15.43

Date: 02/19/2013



RIGHT ELEVATION(TRAFFIC UNDER SPAN 2&3)



RIGHT ELEVATION(TRAFFIC UNDER SPAN 2&3)

Photographs

Bridge ID#: 79-I0240-15.43

Date: 02/19/2013



ABUTMENT 1



ABUTMENT 1

Photographs

Bridge ID#: 79-I0240-15.43

Date: 02/19/2013



SPAN 1 BOTTOM



BENT 1 FRONT

Photographs

Bridge ID#: 79-I0240-15.43

Date: 02/19/2013



BENT 1 FRONT

BRIDGE INSPECTION REPORT

FEB 19 2013

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

Field Report No. 21 Date 2/19/13
Previous Report No. 20 Date 3/29/11
Co Seq: 01 Plans: YES (☒) NO (☐)

Bridge No. 79102400107 Bridge Location No. 79 - 10240 - 1543 (A) 79 - 02826 - 0680 1
Eleven Digit No. Co. Route Log Mile OVER/UNDER PASS

Road Name _____ Feature Intersected _____ CITY _____
Year Constructed 1958 County SHELBY Maint. Dist.: 45 Maint. Resp: 01
Year Widened _____ Year Rehabilitated _____

FEATURES

Wearing Surface Concrete (☒) Timber (☐) Asphalt (☐) Depth _____ (in.)
Flared Width Yes (☐) No (☒) Median Width Open (☐) None (☒) Closed (☐)
Navigational Control Yes (☐) No (☒) Bridge Skew 87L ° LT (☐) RT (☐)
Structure Type (Main Span) CONCRETE I. BEAM
Structure Type (Appr. Spans) _____
No. Main Spans 5 No. Approach Spans _____
Maximum Span Length 74.0 (**. ft.)
Total Length 291.0 (**. ft.)

Structure Name (If Named)

INSPECTORS

1. MOORE
2. LANE
3. GREER
4. OSBORNE
5. _____
6. _____
7. _____
8. _____

WIDTHS (*. ft.)

Deck Out-to-Out 70.0
Roadway Curb/Curb 56.0
Roadway Rail/Rail _____
Sidewalk Rt. 6' Lt. _____
*Approach Roadway 50'
*(Does Not Include Shoulders)
Approach Shoulder Rt. _____
Lt. 6'

CLEARANCES UNDER CONSTRUCTION

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:

N35 ° 5.9800 '

W89 ° 52.1650 '

G.P.S. Location

BRIDGE RATING: (☐) (☒) (☐) (☐)

GOOD FAIR POOR CRITICAL

Supervising Bridge Inspector: Ron W. Moore

PERFORMANCE EVALUATION

Time of Day Inspected 11:30 AM Weather Conditions SUNNY, 49°F

Vehicles Observed CARS + PICKUPS

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) ()	
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..... Tons
ONE LANE BRIDGE ()	()	(X)	()	3 or more Axles.. Tons

Other Signs or Plaques: NONE

Comments Regarding any Problems with Signing: NONE

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

FEB 19 2013

Bridge Location No. 79 - 10240 - 1543
Co. Route Log Mile

Date _____

DECK

	Rating	Comments
Wearing Surface	G <u>(P)</u> P C	
Deck - Structural Condition	G <u>(F)</u> P C	
Curbs	G F P C	
Median	G F P C	
Sidewalks	G <u>(P)</u> P C	
Parapet	G <u>(F)</u> P C	
Railing	<u>(G)</u> F P C	
Paint	G F P C	
Drains	<u>(G)</u> F P C	
Lighting Standards	<u>(G)</u> F P C	
Utilities	G F P C	
Joint Leakage	G F P C	
Expansion Joints	G F <u>(P)</u> C	SPAN #1 & #5 (031)

SUPERSTRUCTURE

Bearing Devices	G F P C	
Beams <u>CIB</u>	G <u>(F)</u> P C	
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 <u>(F)</u> 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 P C	
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 (X)
Needs Repainting YES () NO (X)

Comments _____ Scaling Rating (G) F P C

RECOMMENDATIONS: _____ CLEAN SEAL JOINTS ()

_____ CLEAN DRAINS ()

FEB 19 2013

Bridge Location No. 79 - 10240 - 1543
Co. Route Log Mile

Date _____

SUBSTRUCTURE

PILES TO BE
REPLACED

ABUTMENTS

	Rating	Comments	PILE(S)	ABUTMENT
Caps	G (F) P C			
Breastwall	G F P C			
Wings	G (F) P C			
Backwall	(G) F P C			
Plumb	(G) F P C			
Footing	G F P C			
Piles	G F P C	N/V		
Embankment	G (F) P C			
Bearing	(G) F P C			
Slope Paving	G (F) P C			
Rip Rap	G F P C			
Earthquake Devices	(G) F P C			

PIERS

			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

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

Piles Need Replacement: NO (X) YES ()

CUT VEGETATION NO () YES (X) [204]

CLEAR DRIFT NO (X) YES ()

RECOMMENDATIONS:

Inspection Team's Summary
Bridge Location No. 79 - I0240 - 15.43
Inspection Date 02-19-13
Bridge Rating FAIR

THIS 5 SPAN CONCRETE I BEAM STRUCTURE IS IN FAIR CONDITION.
SAFETY FEATURES ARE APPROACH METAL RAILS, CONCRETE BRIDGE
PARAPETS.

APPROACH 1 ASPHALT HAS FINE CRACKS.

SPANS 1&5 JOINT MATERIAL IS PEELING AND FILLED WITH DEBRIS.

CONCRETE WEARING SURFACE HAS HAIRLINE TO FINE CRACKS.

CONCRETE BOTTO DECK HAS CHIPPED TO STEEL, AREA JUST BEFORE
SPALLING, HAIRLINE TO FINE CRACKS WITH EFFLORESCENCE ACTION,
PATCHED AREAS, SURFACE STEEL, DELAMINATION.

CONCRETE I BEAMS HAVE LIGHT COLLISION DAMAGE, CHIPPED
AREAS, PATCHED AREAS.

CONCRETE SUBSTRUCTURE HAS SPALLING.

UNDER PASS ROUTE IS UNDER CONSTRUCTION.

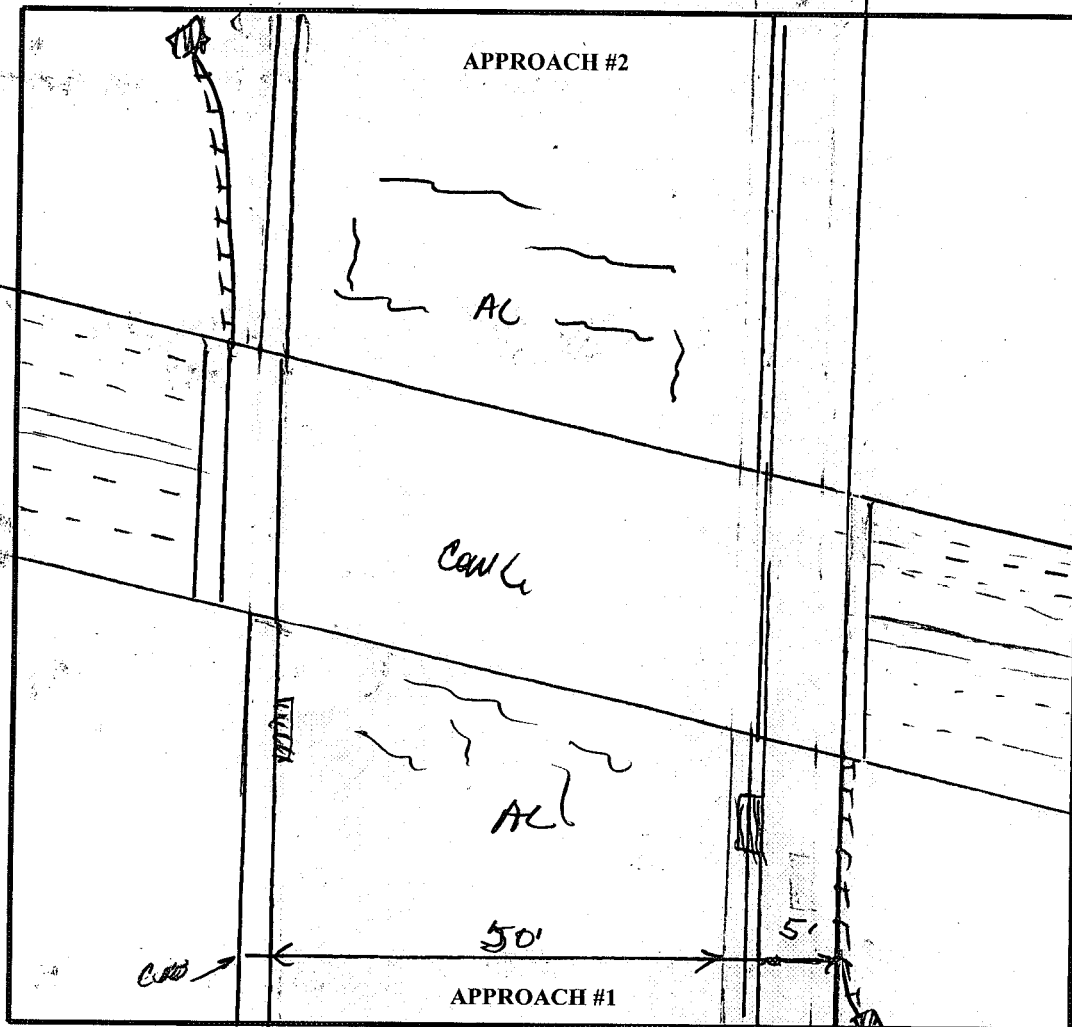
ROBERT OSBORNE

INSPECTOR

CROSS SECTION: YES ☐ NO ☒ PONTIS: YES ☒ NO ☐

FEB 19 2013

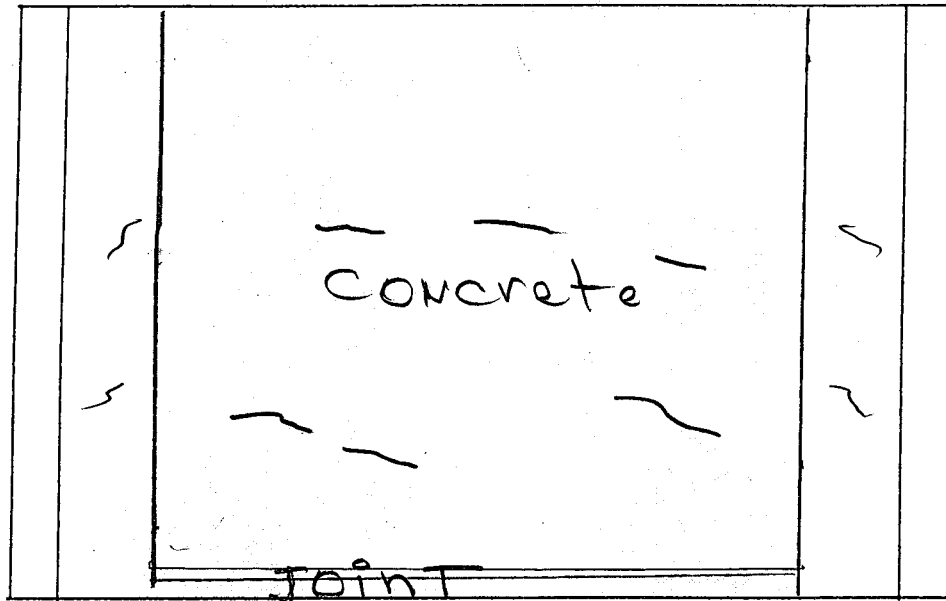
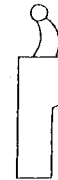
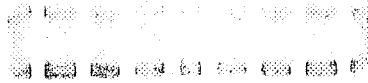
BRIDGE NO.: 79I02400107 79 I0240 1543 87L DATE: _____
 CO. ROUTE LOG MILE L/R SKEW



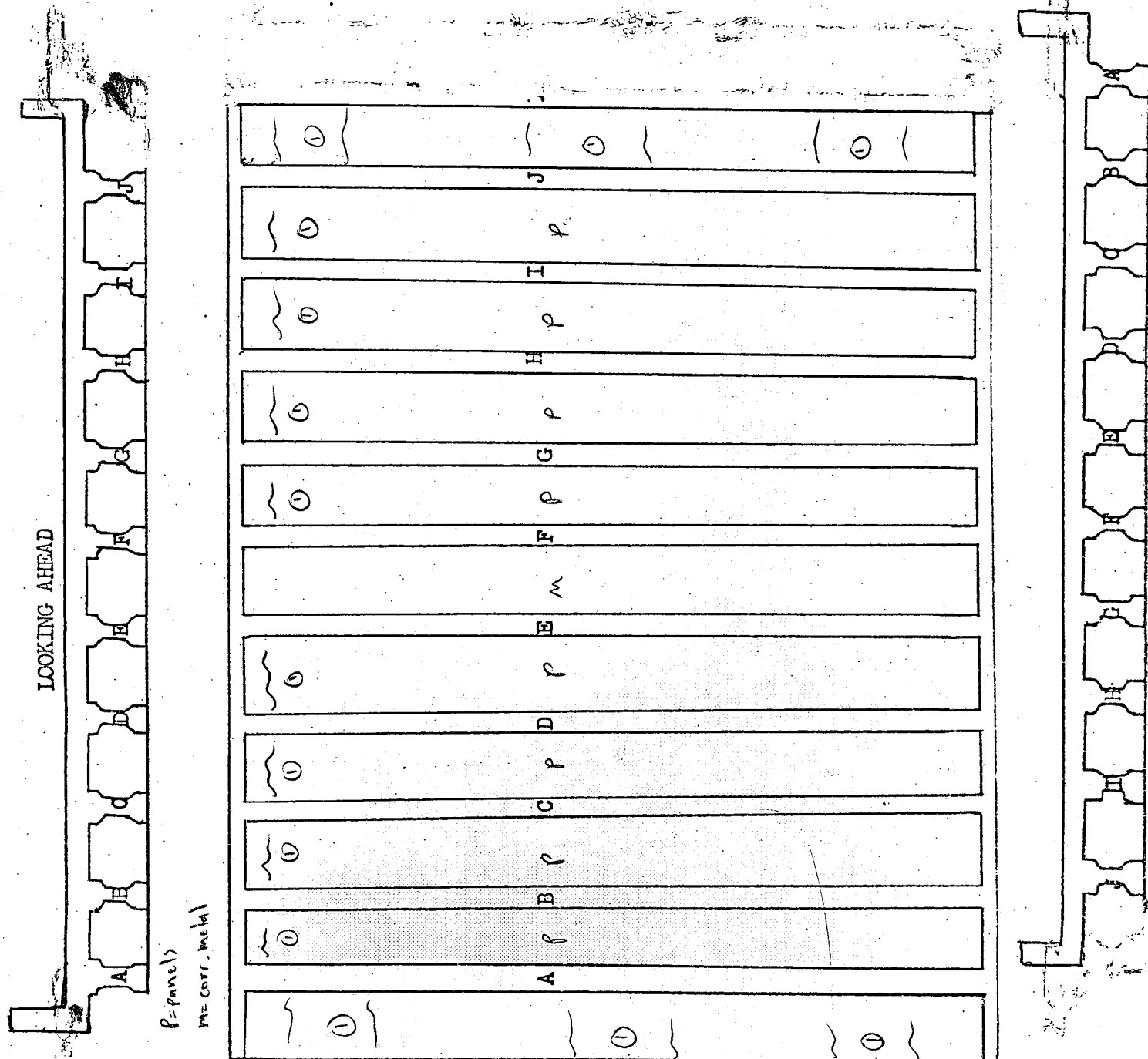
ELEMENT	RATING	COMMENTS
ALIGNMENT	Ⓒ F P C	
APPROACH PAVEMENT	G Ⓒ P C	Fin cracks
APPROACH SLAB	G F P C	N/A
APPROACH GUARDRAIL	Ⓒ F P C	
EMBANKMENT	Ⓒ F P C	
DRAINS	Ⓒ F P C	
APPROACH JOINT	G F P C	N/A
SIGNS	G F P C	NONE

FEB 19 2013

79 I-240 15.43
 Bridge No. Co. Route Log Mile R/L Skew

SPAN. NO. 1

ELEMENT	RATING	COMMENT
TOP DECK	G <u>F</u> P C	fine cracks
PARAPET	G <u>F</u> P C	fine cracks
Metal RAILS	G <u>F</u> P C	
DRAIN	G <u>F</u> P C	
JOINT	G <u>F</u> P C	material, torn w/ sections w/ material missing
Sidewalk	G <u>F</u> P C	hair line cracks

BR. NO. 29 J240 15.43 SK. LT. SPAN NO. 1

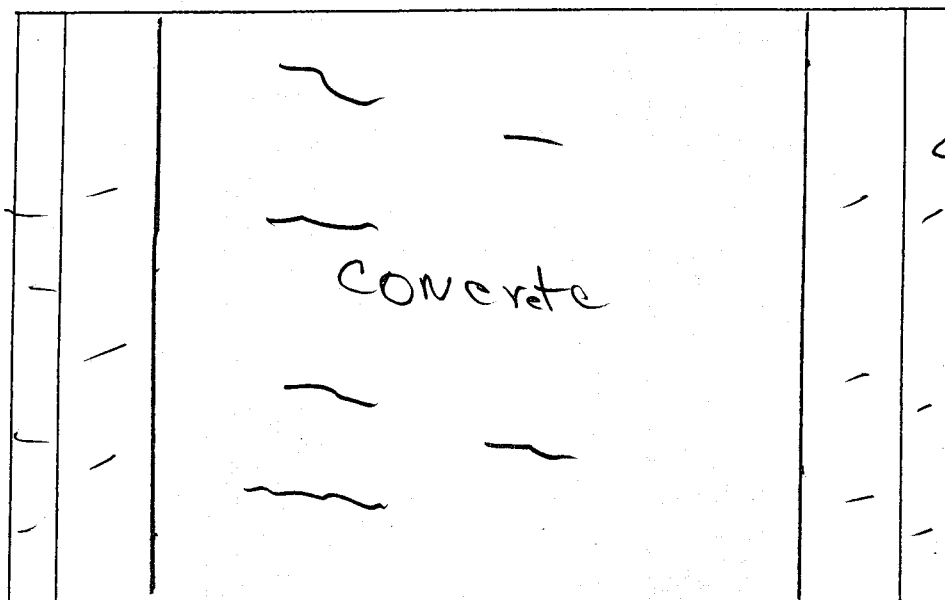
① fine cracks w/ left action

DIR. OF ROUTE

FEB 19 2013

79 I-240 15.43
 Bridge No. Co. Route Log Mile R/L Skew

SPAN. NO. 2



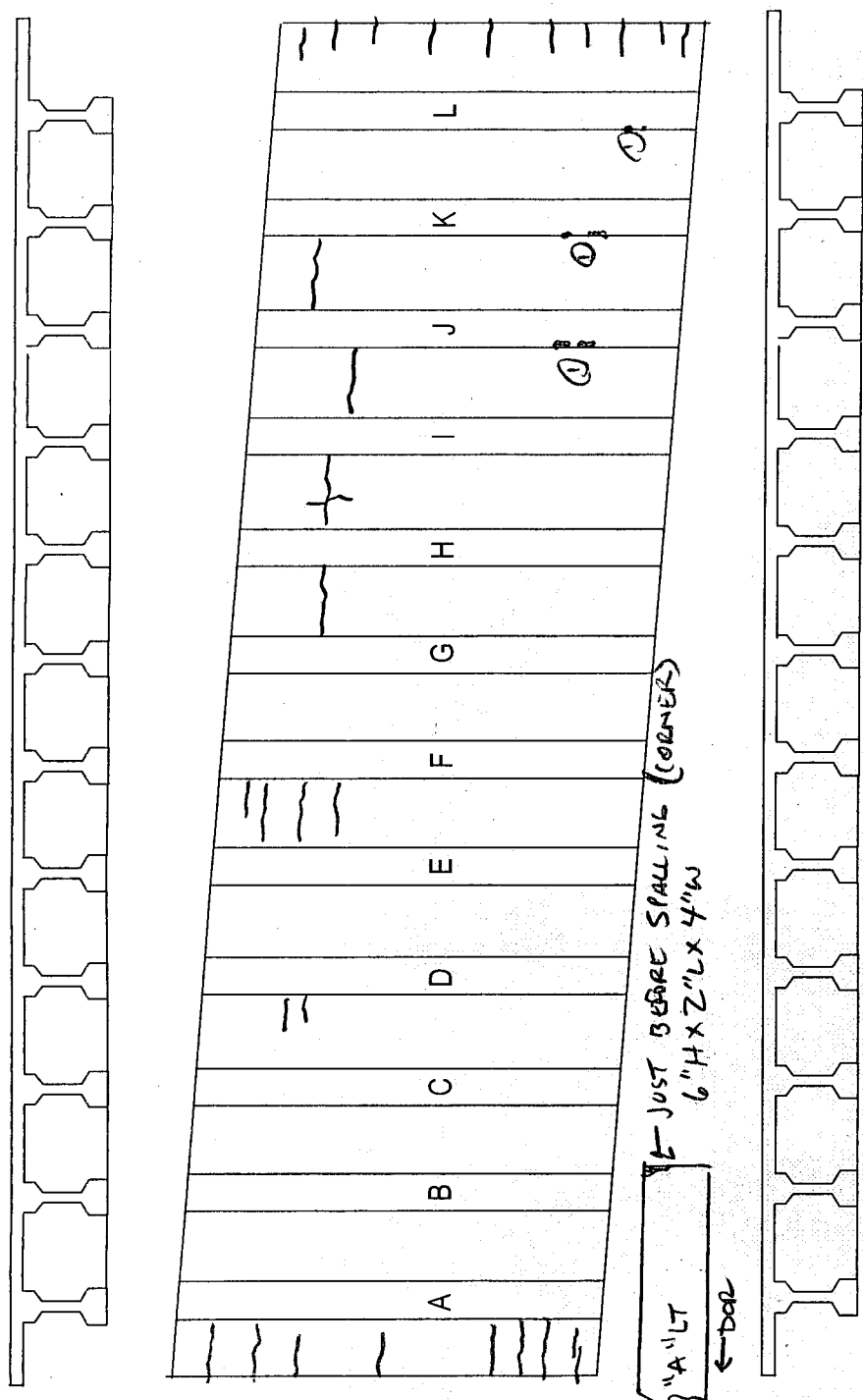
ELEMENT	RATING	COMMENT
TOP DECK	G F P C	fine cracks
PARAPET	G F P C	hair line to fine cracks
metal RAILS	G F P C	
LIGHT DRAIN	G F P C	NONE
JOINT	G F P C	NONE
Sidewalk	G F P C	hairline cracks

FEB 19 2013

Bridge No. 79 - 1240 - 15.43

SKEW

Span No. 2

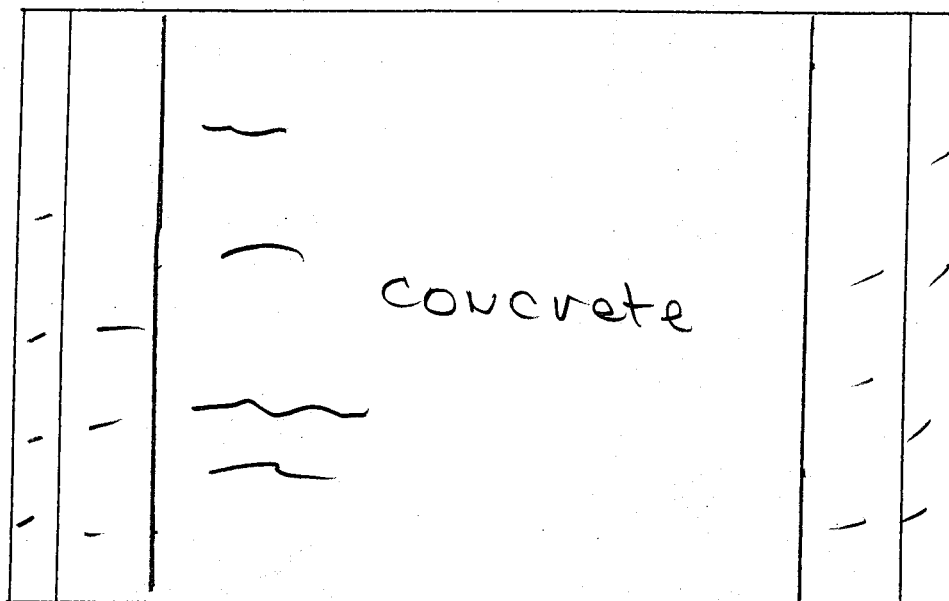


ELEMENT	RATING	COMMENTS
BOTTOM DECK	G F P C	HAIRLINE CRACKS
CONC. I BEAM	G F P C	① LIGHT COLLISION DAMAGE 3'-12" L X 2" W X 1" D
A ---	G F P C	
B - I	G F P C	
J - L	G F P C	
E.Q.	G F P C	
DIA.	G F P C	

FEB 19 2013

79 I-240 15.43
 Bridge No. Co. Route Log Mile R/L Skew

SPAN. NO. 3

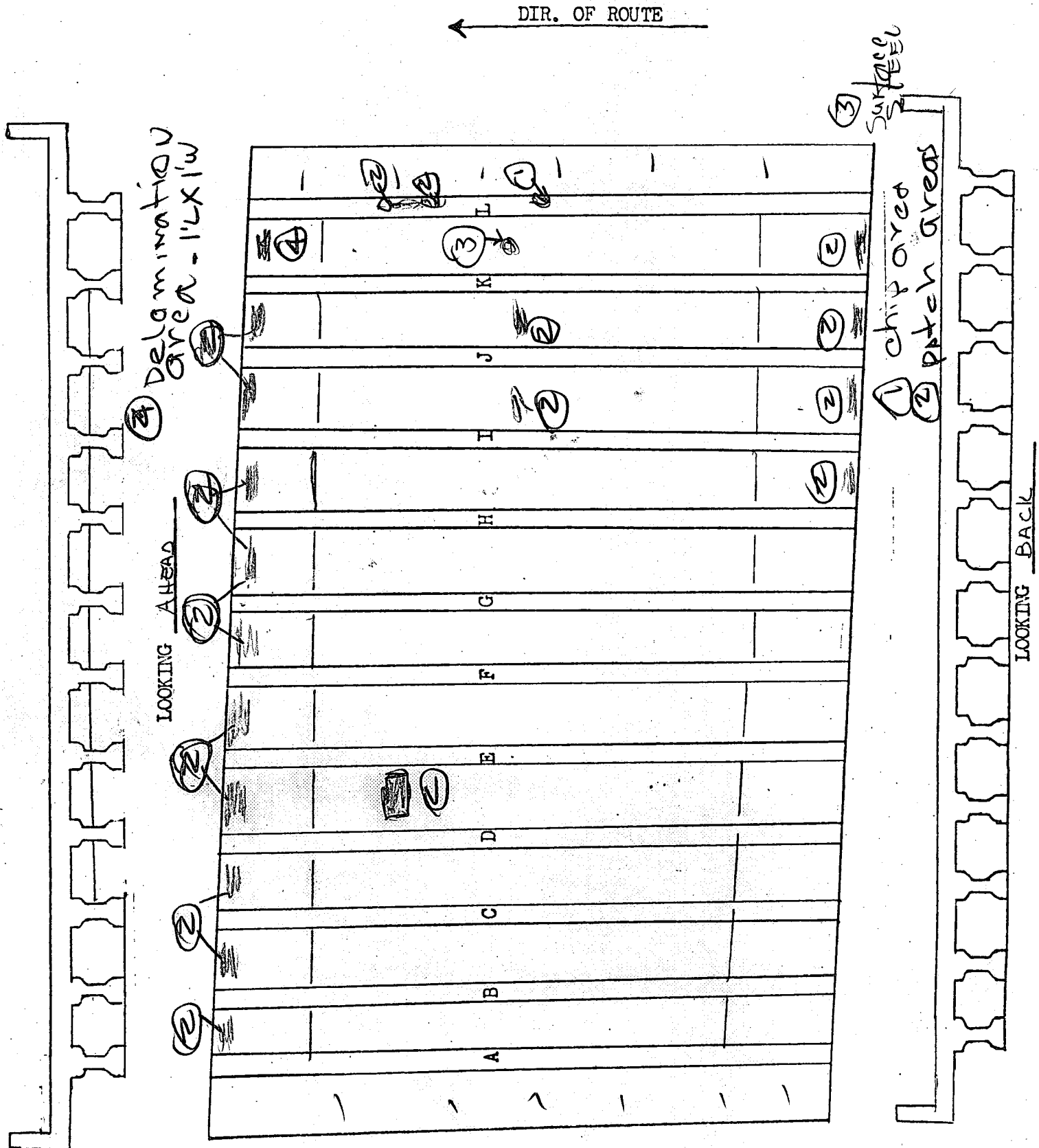


ELEMENT	RATING	COMMENT
TOP DECK	G F P C	fine cracks
PARAPET	G F P C	hairline cracks
metal RAILS	G F P C	
DRAIN	G F P C	None
JOINT	G F P C	None
Sidewalk	G F P C	hairline cracks

FEB 19 2013

BRIDGE NO. 79 I-240 ~~1540~~ ^{15.43}BENT NO. _____ SPAN NO. 3 ABT. NO. _____ PIER NO. _____

ELEMENT	RATING	COMMENTS
BOTTOM DECK	G <u>F</u> P C	2-4 w/ fine cracks
CONC. I. BEAMS		
A B C	G <u>F</u> P C	
_____	G F P C	
D E F	G <u>F</u> P C	
_____	G F P C	
G H I	G <u>F</u> P C	
_____	G F P C	
J K	G <u>F</u>	
J K <u>L</u>	G <u>F</u> P C	see ① & ②
_____	G F P C	
	G F P C	
	G F P C	
	G F P C	
EQ BLACK TIES	G <u>F</u> P C	
DIA.	G <u>F</u> P C	

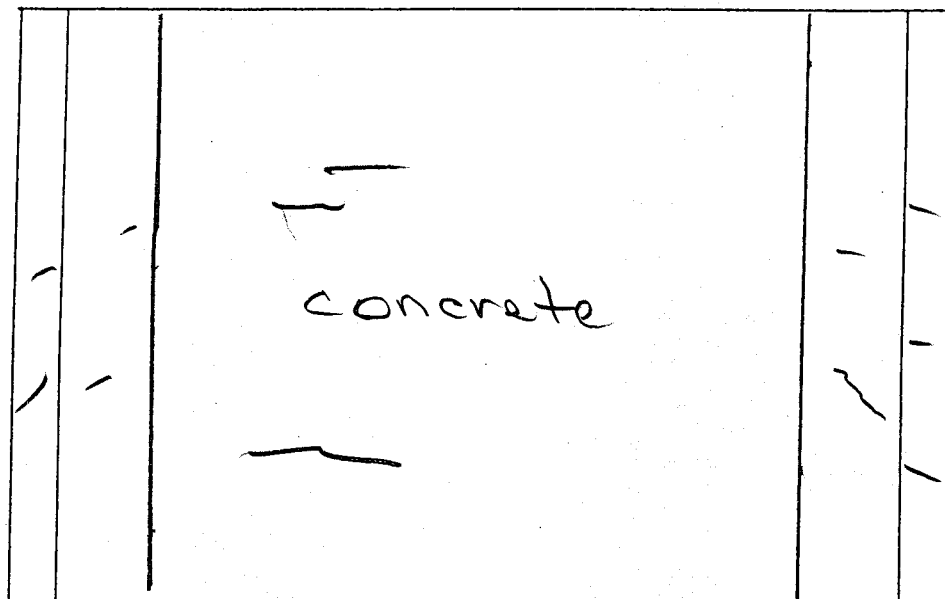


FEB 19 2013

79 I-240 15.43

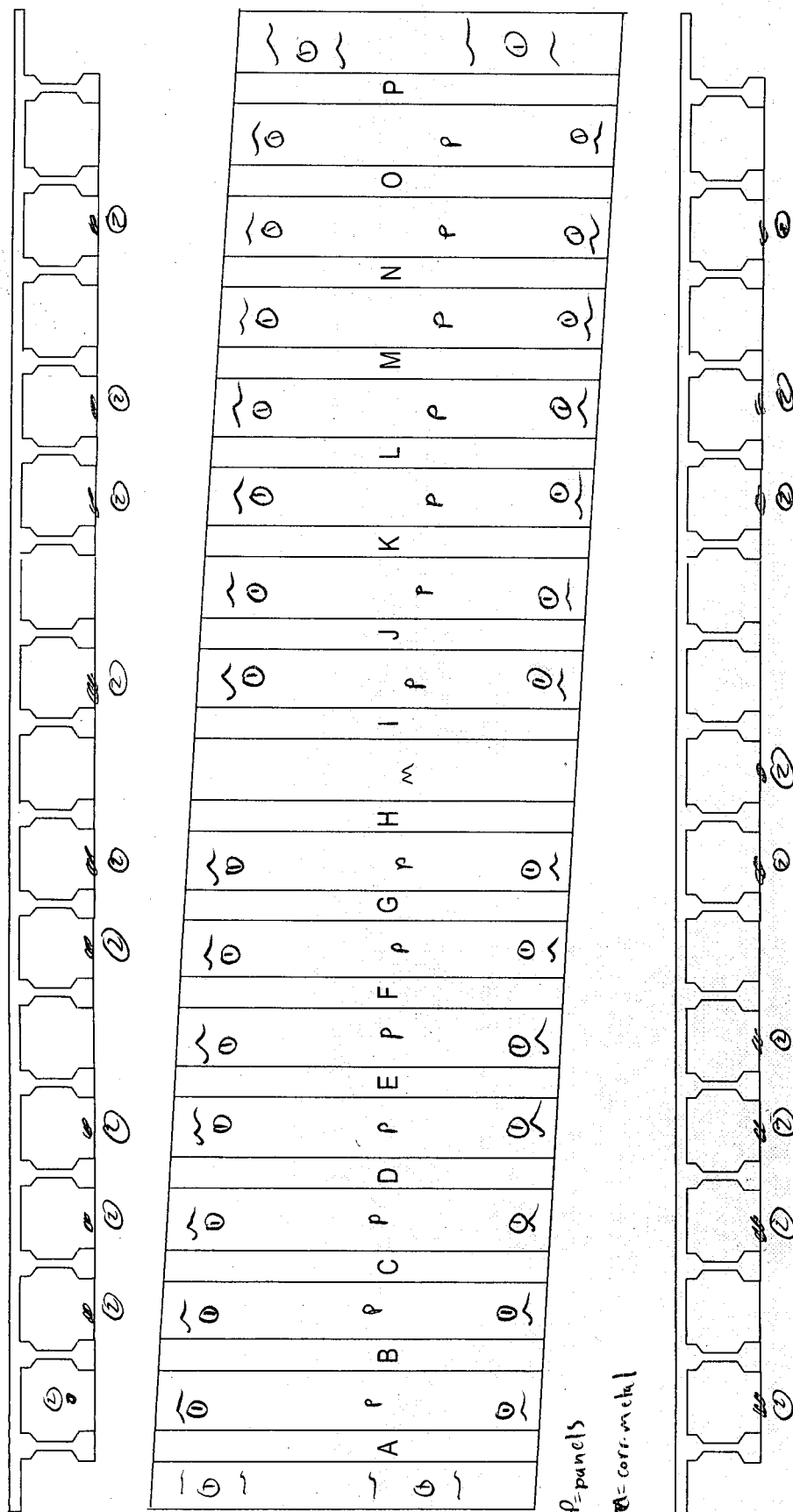
Bridge No. Co. Route Log Mile R/L Skew

SPAN. NO. 4



ELEMENT	RATING	COMMENT
TOP DECK	G F P C	fine cracks
PARAPET	G F P C	hairline to fine cracks
metal RAILS	G F P C	
DRAIN	G F P C	NONE
JOINT	G F P C	None
Sidewalk	G F P C	hairline cracks

15.43

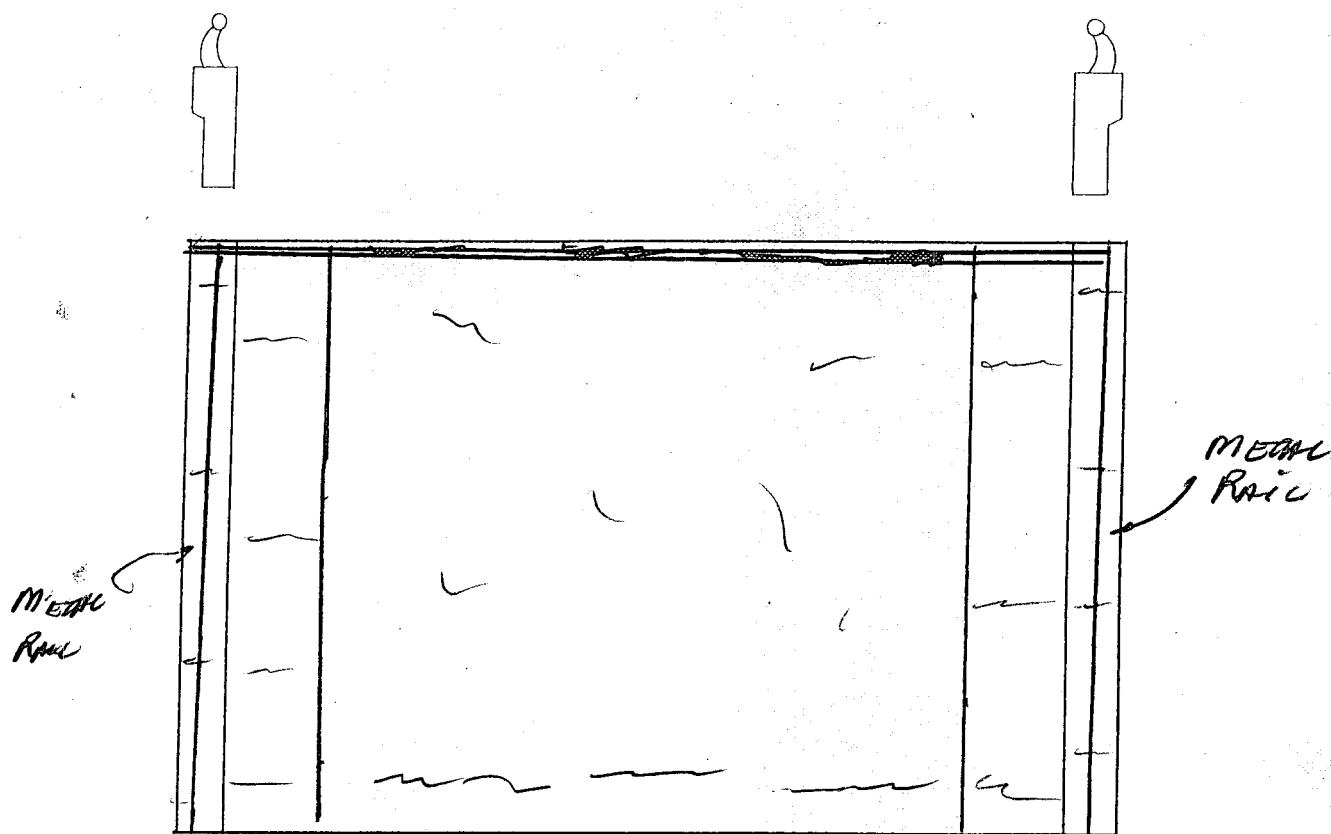


ELEMENT	RATING	COMMENTS
BOTTOM DECK	G \textcircled{F} P C	① fine cracks w/lett action
CONC. I BEAM		② chipped to steel areas
A --- ρ	G \textcircled{C} F P C	
	G F P C	
	G \textcircled{C} F P C	
BACKWALLS	G F P C	N/A
DIA.	G \textcircled{F} P C	②

FEB 19 2013

79 I-240 15.43
 Bridge No. Co. Route Log Mile R/L Skew

SPAN. NO. 5



ELEMENT	RATING	COMMENT
TOP DECK	G (P) P C	Hair Lot to Foe cracks
PARAPET	G (P) P C	Hair Lot cracks
METAL RAILS	(G) F P C	
DRAIN	(G) F P C	N/A
JOINT	G F (P) C	
Sidewalk	G (P) P C	Material peeling Fills with Debris and Holes begin to spruce Hair Lot cracks

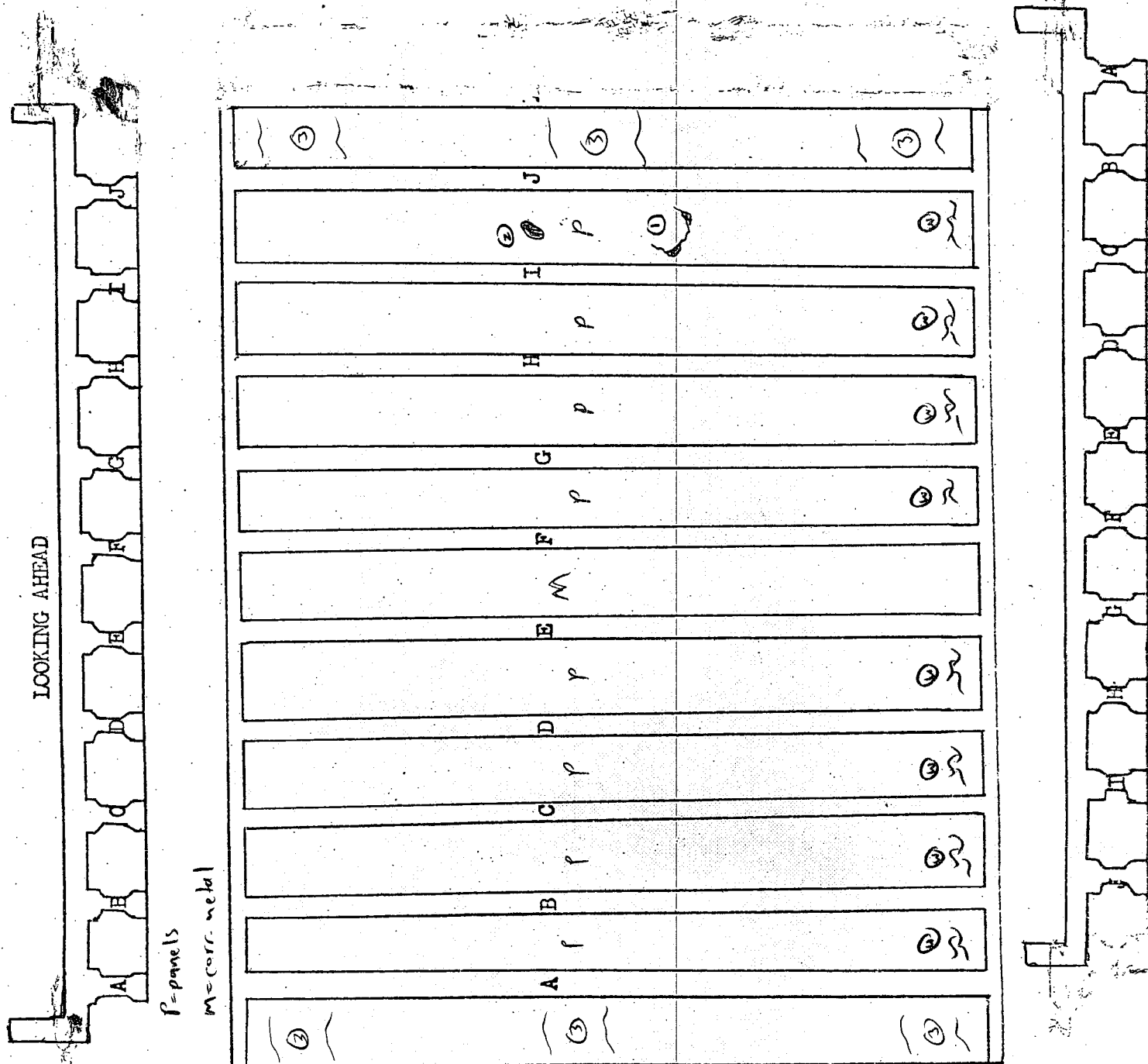
FEB 19 2013

BRIDGE NO. 79 I-240 ~~4530~~ 15.43BENT NO. _____ SPAN NO. 1 ABT. NO. _____ PIER NO. _____

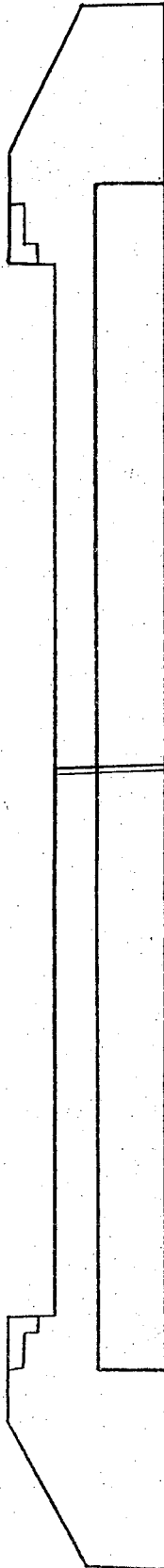
ELEMENT	RATING	COMMENTS
BOTTOM DECK	G <u>F</u> P C	① area just before spalling ② chipped to steel area ③ fine cracks w/ eff action
CONC. I. BEAMS		
A B C	<u>G</u> F P C	
	G F P C	
D E F	<u>G</u> F P C	
	G F P C	
G H I	<u>G</u> F P C	
	G F P C	
J K L	<u>G</u> F P C	
	G F P C	
M N O	G F P C	
	G F P C	
P Q	<u>G</u> F P C	
BACKFILLS	<u>G</u> F P C	
DIA.	<u>G</u> F P C	

FEB 19 2013

BR. NO. 79 - 7240-15.43 SK. 87 LT. SPAN NO. 5



- ① Area just before spalling
- ② chipped to steel area
- ③ fine cracks within section

BR. NO. 79 I-240 15.43 SK. 8721ABUT. NO. B 19 2013
RW

LOOKING _____

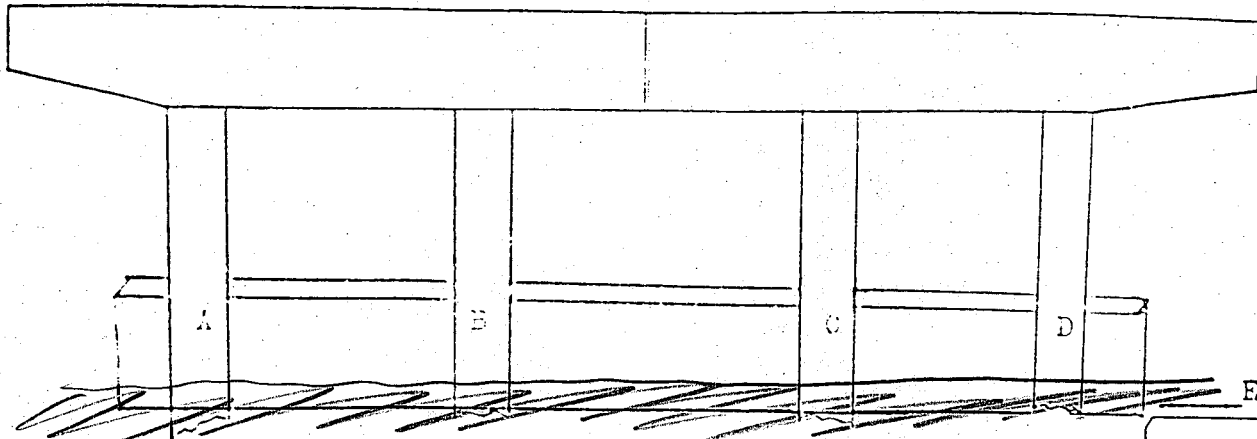
ELEMENT	RATING	COMMENT
BEARINGS	G F P C	
CAP	G F P C	
PILING	G F P C	N/V
EMBANKMENT	G F P C	UNDER CONSTRUCTION @ RT EDGE
SLOPE PAVING OR RIP RAP	G F P C	UP TO 18" CRACKS
VEG.	G F P C	HEAVY @ LT
E.Q.	G F P C	
WINGS	G	

BR. NO. 79 2240 1543 SK.

BENT NO.

FEB 19 1963

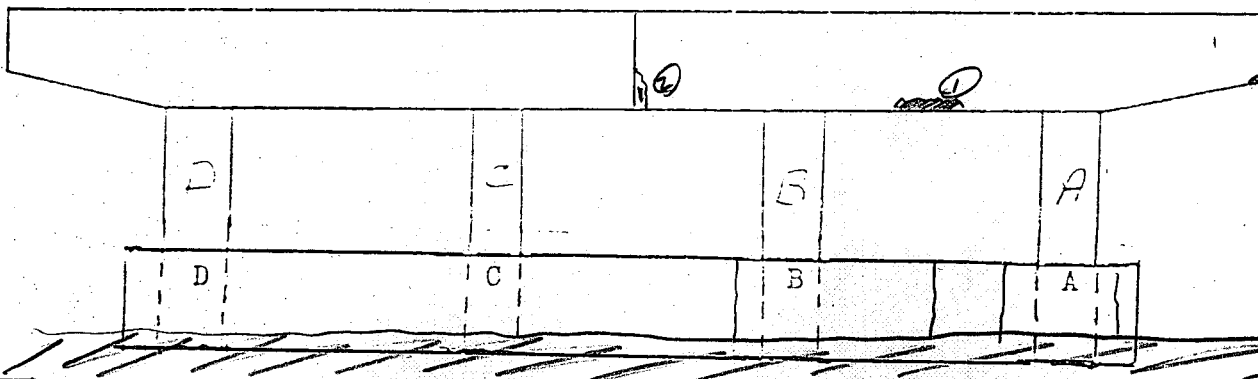
FRONT



END VIEW



REAR



③ CORNER
SPALL
12"W
2'-4"L
1'-3"H

ELEMENT

RATING

COMMENT

BEARINGS

G F P C

CAP

G F P C

① - ③..

COLUMNS A

G F P C

B

G F P C

C

G F P C

D

G F P C

E.Q.

G F P C

LIGHT

G

CRASHWALL

F

HAIRLINE - 1/16" CRACKS

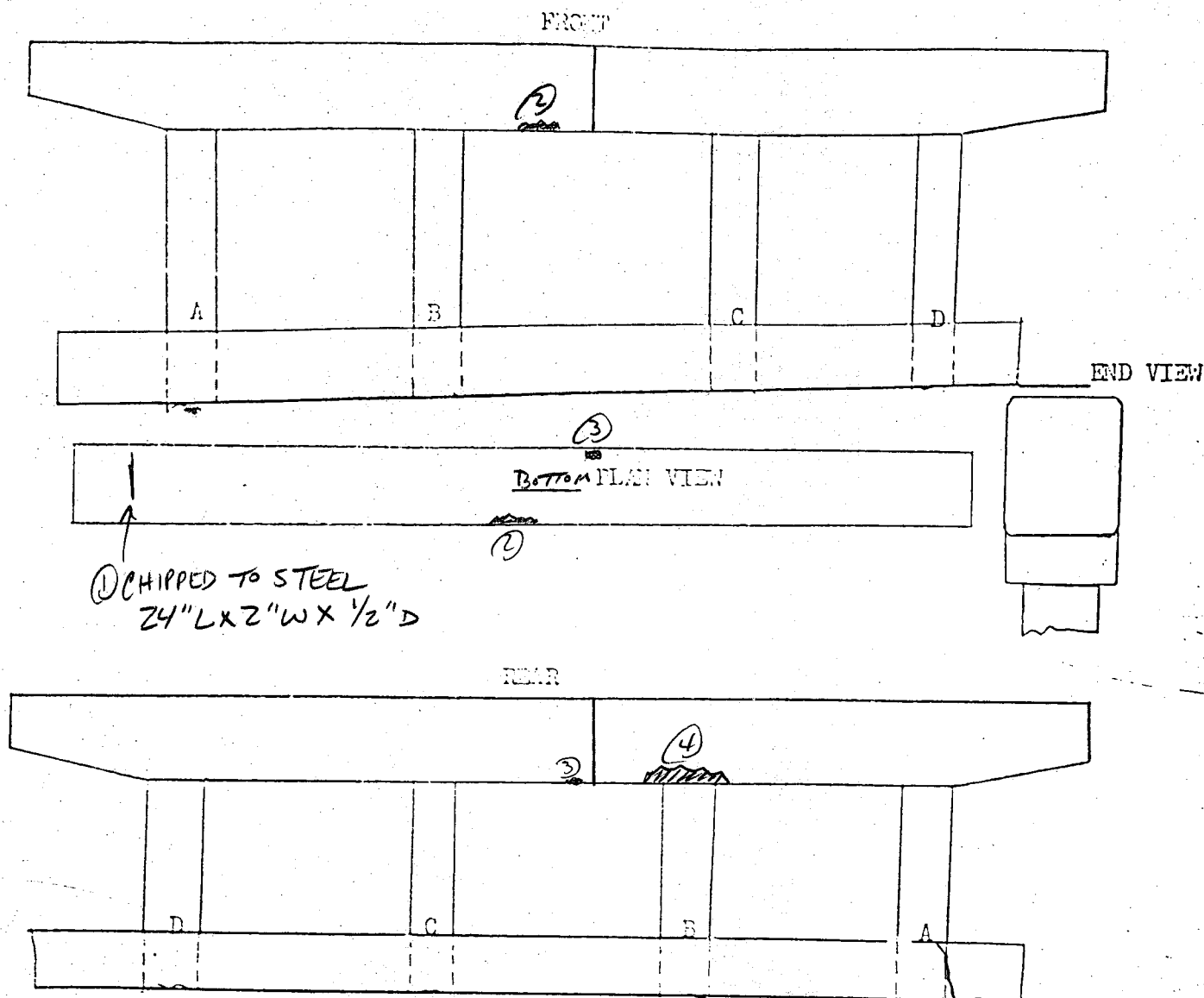
① JUST BEFORE SPALLING
24"W X 6"H X 3"D

② SPALLED TO STEEL
18"H X 6"W X 1'-3"D

FEB 29 2013

BR. NO. 79 6-240 15.43 SK. 88°

BENT NO. 2

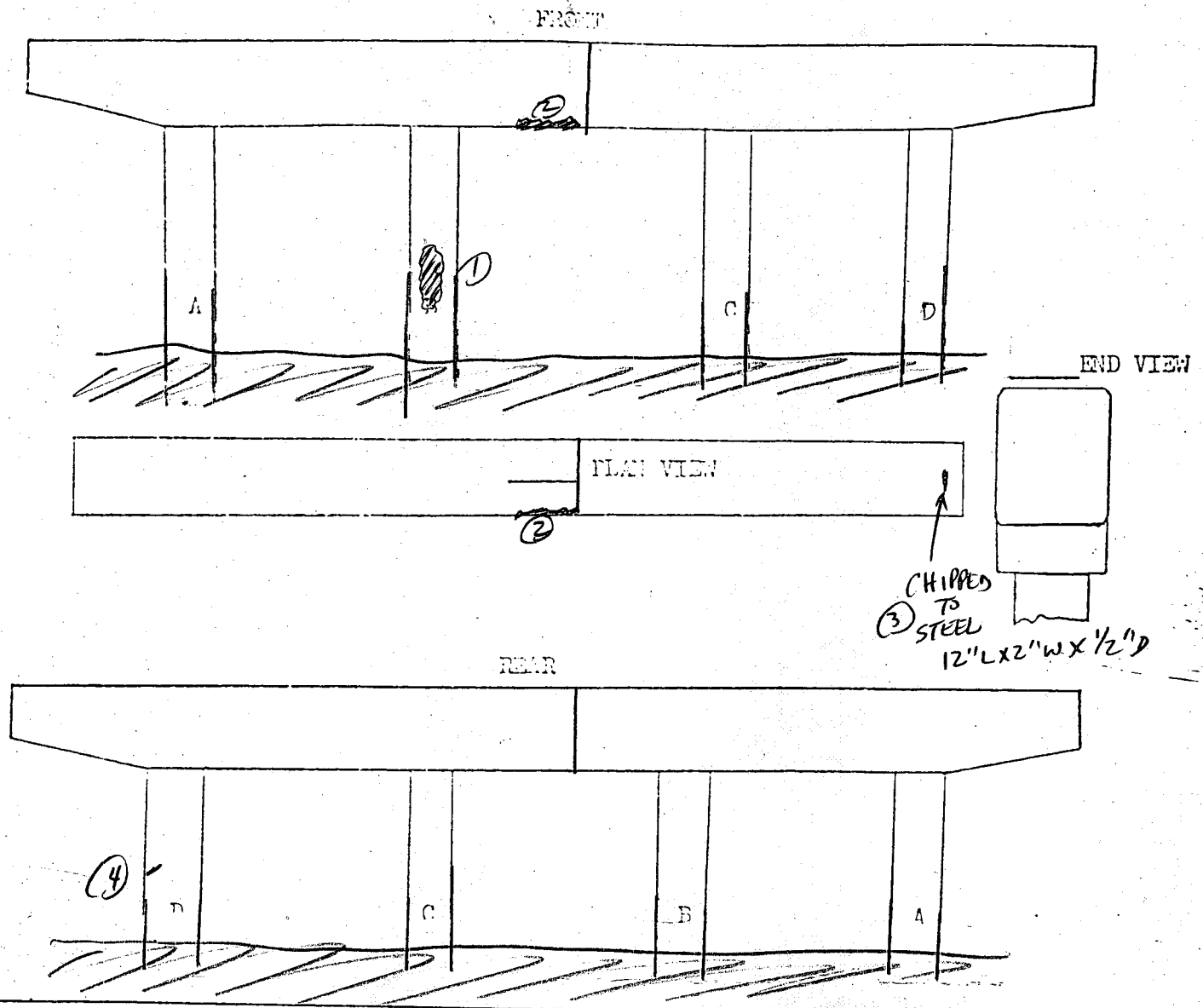


ELEMENT	RATING	COMMENTS
BEARINGS	G F P C	
CAP	G F P C ① - ④	② JUST BEFORE SPALLING 18" W X 3" L X 3" H
COLUMNS A	G F P C	③ JUST BEFORE SPALLING 6" DIA X 1' H
B	G F P C	
C	G F P C	④ JUST BEFORE SPALLING 36" W X 10" H X 3" D
D	G F P C	
CRASHWALL	G F P C 1/16" CRACK	
E.Q.	G F P C	

FEB 1 1963

BR. NO. 79 1240 1543 SK. 28°

BENT NO. 3

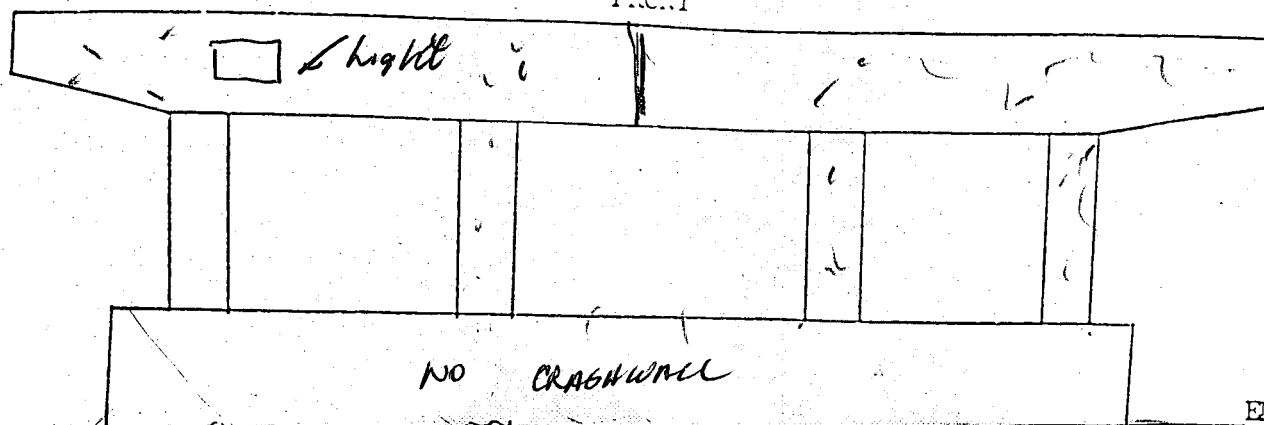


ELEMENT	RATING	COMMENT
BEARINGS	(G) F P C	
CAP	G (F) P C (2) (3)	(1) JUST BEFORE SPALLING 42"H X 18"W X 1/2"D
COLUMNS A	(G) F P C	
B	G (F) P C (1)	(2) JUST BEFORE SPALLING 42"W X 4"H X 2"D
C	(G) F P C	
D	G (F) P C (4)	(4) SPALL 18"L X 4"H X 1"D
CRASHWALL	G F P C -	
E.Q.	(G) F P C	
LIGHT	(G)	

FEB 19 2013

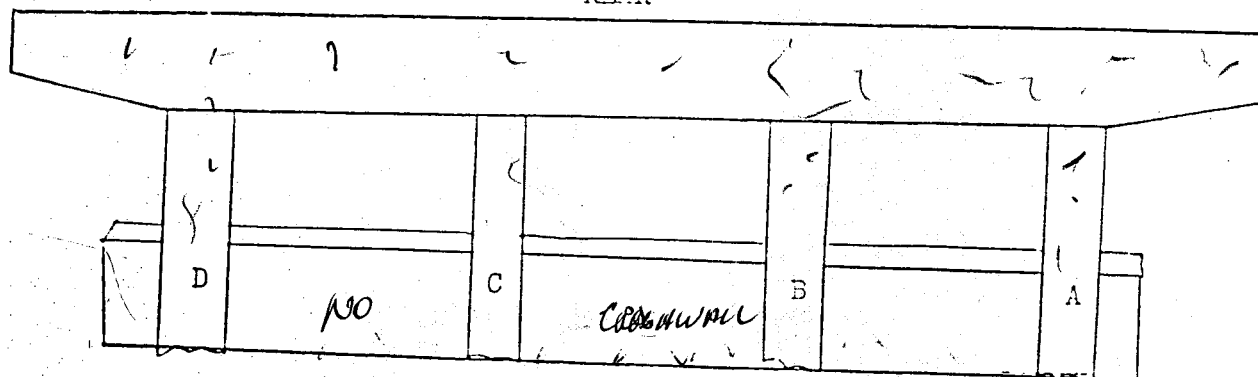
BR. NO. 79 1240 15.43 SK. 2 BENT NO. 4

FRONT



PLAN VIEW

REAR



ELEMENT

RATING

COMMENT

BEARINGS

G F P C

CAP

G F P C

COLUMNS A

G F P C

B

G F P C

C

G F P C

D

G F P C

E. Q.

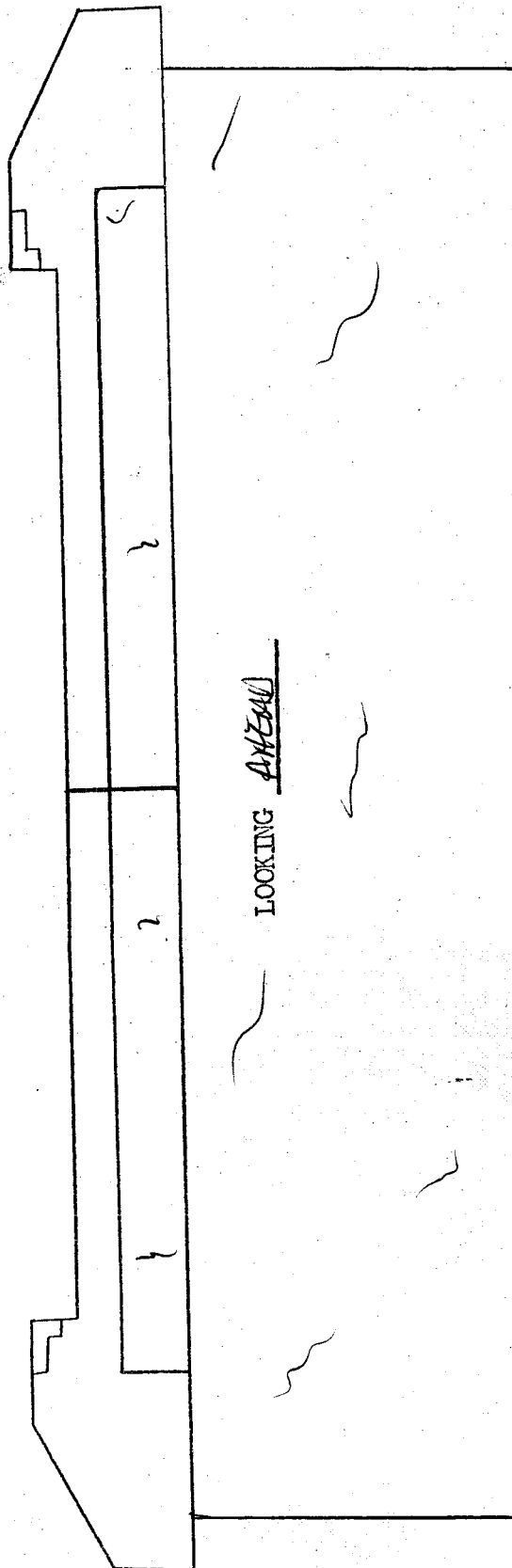
G F P C

Light

G

Light Repairs

Light Repairs

BR. NO. 79 I-240 1543 SK. 8704FEB 19 2013
ABUT. NO. 2

COMMENT

RATING

ELEMENT

G F P C

BEARINGS

G F P C

CAP

G F P C

PILING

G F P C

EMBANKMENT

G F P C

SLOPE PAVING
OR RIP RAP

G F P C

VEG.

G F P C

E.G.

Fair cracks
NWFair cracks
Fair cracks

Underpass Condition Coding Form

Revised 02/20/2013

Bridge Number: 79I02400107A
(Includes Item 5A)

Feature Intersected: PARK AVE / I240

County: 79

Route: I0240

Special Case: 0

County Sequence: 1

Log Mile: 15.43

CODE ONLY THOSE VALUES WHICH HAVE CHANGED

ITEM #	DESCRIPTION	VALUE	UNDERPASS SAFETY FEATURES
90	LAST INSPECTION DATE	<u>02/19/2013</u>	
	EARLIEST DATE OF NEXT REGULAR INSPECTION	<u>12/21/2014</u>	
		<u> / / </u>	
10	MINIMUM V.C. OVER DECK (ROADWAY + SHOULDERS)	<u>16</u> FT. <u>6</u> IN. <u> </u> FT. <u> </u> IN.	515 (A) TYPE UNDERPASS BARRIER CONCRETE BARRIER OR RAIL
			Revised Barrier Type
520	MINIMUM V.C. OVER DECK (EXCLUDES SHOULDERS)	<u>16</u> FT. <u>6</u> IN. <u> </u> FT. <u> </u> IN.	(B) ADEQUACY OF BARRIER OR RAIL <u>0</u>
47	TOTAL HORIZONTAL UNDERCLEARANCE	<u>71</u> FT. <u>0</u> IN. <u> </u> FT. <u> </u> IN.	(C) ADEQUACY OF TRANSITIONS <u>0</u>
54	MINIMUM VERTICAL UNDERCLEARANCE (EXCLUDES SHOULDERS)		(D) ADEQUACY OF TERMINALS <u>0</u>
	Circle One: H R <u> </u> FT. <u> </u> IN.		
55	MINIMUM LATERAL UNDERCLEARANCE ON RIGHT SIDE		554 VERTICAL CLEARANCE LISTED ON HEIGHT POSTING
	Circle One: H R <u> </u> FT. <u> </u> IN.		<u> </u> FT. <u> </u> IN. <u> </u> FT. <u> </u> IN.
56	MINIMUM LATERAL UNDERCLEARANCE ON LEFT SIDE	<u> </u> FT. <u> </u> IN.	16 LATITUDE N 35° 5.9800' 17 LONGITUDE W 89° 52.1650'
521	OVERALL CONDITION	<u>FAIR</u>	HEIGHT POSTED AT BOTH APPROACHES? YES [] NO [] N/A []
555	COMMENTS		

TEAM LEADER SIGNATURE

REVIEW DATE

BRIDGE MAINTENANCE RECOMMENDATIONS

COUNTY: SHELBY

LOCATION: 79-02826-06.80-

CO. SEQ.: 1 SPEC. CASE: 0

Tennessee Department
of Transportation

CROSSING: PARK AVE / I240&I240-RP

FED. BRIDGE NO.: 79I02400107

MAINT. DIST.: 79

REPAIR LIST NO.: N

DATE ADDED:

REVISED: 02/19/2013

FACILITY CARRIED:	FAU 2826	NUMBER OF MAIN SPANS:	5
HIGHWAY SYSTEM:	18-STP URBAN, NON-STATE SYS.	NUMBER OF APPROACH SPANS:	0
BRIDGE WIDTH (CURB TO CURB):	56 FT 1 IN	BRIDGE LENGTH (FT):	291
BRIDGE WIDTH (OUT TO OUT):	69 FT 10 IN	MAXIMUM SPAN LENGTH (FT):	74
APPROACH ROADWAY (W/SHOULDERS):	51 FT 10 IN	SKEW ANGLE (DEGREES):	87
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:	02/19/2013	GENERAL CONDITION:	FAIR
EVALUATION DATE:	04/18/2011	STRUCTURALLY DEFICIENT:	NO
PPRM PIN NUMBER:			
H TRUCK RATING @ INV.:	20 TONS	SUFFICIENCY RATING:	69.8

SUGGESTED ROUTINE MAINTENANCE AND COMMENTS

SEE BR. NO. 79-I0240-15.43 (79I02400107A) FOR RECOMMENDATIONS

GENERAL COMMENTS:

02-19-2013 UNDERPASS UNDER CONSTRUCTION.

Underpass Condition Coding Form

Revised 02/20/2013

Bridge Number: 79I02400107B
(Includes Item 5A)

County: 79

Route: I0240

Special Case: 0

County Sequence: 1

Feature Intersected: PARK AVE/I240-RL-RAMP

Log Mile: 15.42

CODE ONLY THOSE VALUES WHICH HAVE CHANGED

ITEM #	DESCRIPTION	VALUE	UNDERPASS SAFETY FEATURES
90	LAST INSPECTION DATE	<u>02/19/2013</u>	
	EARLIEST DATE OF NEXT REGULAR INSPECTION	<u>12/21/2014</u>	
		<u> / / </u>	
10	MINIMUM V.C. OVER DECK (ROADWAY + SHOULDERS)	<u>16</u> FT. <u>5</u> IN. <u> </u> FT. <u> </u> IN.	515 (A) TYPE UNDERPASS BARRIER METAL BARRIER OR RAIL
			Revised Barrier Type
520	MINIMUM V.C. OVER DECK (EXCLUDES SHOULDERS)	<u>16</u> FT. <u>5</u> IN. <u> </u> FT. <u> </u> IN.	(B) ADEQUACY OF BARRIER OR RAIL <u>0</u>
47	TOTAL HORIZONTAL UNDERCLEARANCE	<u>35</u> FT. <u>6</u> IN. <u> </u> FT. <u> </u> IN.	(C) ADEQUACY OF TRANSITIONS <u>0</u>
54	MINIMUM VERTICAL UNDERCLEARANCE (EXCLUDES SHOULDERS)		(D) ADEQUACY OF TERMINALS <u>1</u>
	Circle One: H R <u> </u> FT. <u> </u> IN.		
55	MINIMUM LATERAL UNDERCLEARANCE ON RIGHT SIDE		554 VERTICAL CLEARANCE LISTED ON HEIGHT POSTING
	Circle One: H R <u> </u> FT. <u> </u> IN.		<u> </u> FT. <u> </u> IN. <u> </u> FT. <u> </u> IN.
56	MINIMUM LATERAL UNDERCLEARANCE ON LEFT SIDE	<u> </u> FT. <u> </u> IN.	16 LATITUDE N 35° 5.9800' 17 LONGITUDE W 89° 52.1650'
521	OVERALL CONDITION	FAIR <u> </u>	HEIGHT POSTED AT BOTH APPROACHES? YES [] NO [] N/A []
555	COMMENTS	<u> </u> <u> </u> <u> </u> <u> </u> <u> </u>	

TEAM LEADER SIGNATURE

REVIEW DATE

BRIDGE MAINTENANCE RECOMMENDATIONS

COUNTY: SHELBY

LOCATION: 79-I0240-15.42-

CO. SEQ.: 1 SPEC. CASE: 0

MILEPOST: 15.72

CROSSING: PARK AVE/I240-RL-RAMP

FED. BRIDGE NO.: 79I02400107

MAINT. DIST.: 79

Tennessee Department
of Transportation

REPAIR LIST NO.: N

DATE ADDED:

REVISED: 02/19/2013

FACILITY CARRIED:	FAU 2826	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):	291
BRIDGE WIDTH (OUT TO OUT):	N/A FT IN	MAXIMUM SPAN LENGTH (FT):	74
APPROACH ROADWAY (W/SHOULDERS):	26 FT 10 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: 02/19/2013

GENERAL CONDITION: FAIR

EVALUATION DATE: 04/18/2011

STRUCTURALLY DEFICIENT:

PPRM PIN NUMBER:

H TRUCK RATING @ INV.: TONS

SUFFICIENCY RATING:

SUGGESTED ROUTINE MAINTENANCE AND COMMENTS

SEE BRIDGE NO. 79-I0240-15.43 (79I02400107A) FOR RECOMMENDATIONS.

GENERAL COMMENTS:

02-19-2013 UNDERPASS UNDER CONSTRUCTION.

FEB 19 2013

Page 1 of 2

INSPECTION REPORT FOR UNDERPASS ROUTE

Page No. _____

Form BIR 3.0A

(Rev. 9-22-98)

DT-1443

Field Report No. _____

Date _____

Previous Report No. _____

Date _____

Bridge No. _____
Eleven Digit No. _____Underpass Location No. 79 - 7240 - 15.43_____
Railroad/Walkway or - -
Co. Route Log Mileover/
under 79 - 2826 - 6.80
Co. Route Log Mile

County _____

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. ()

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 24 ft.Approach Shoulder Width 22 ft. Right 10 ft. Left*Horizontal Clearance Under Bridge 68 ft. _____ 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

UNDER
CONSTRUCTION**TRAFFIC SAFETY FEATURES FOR UNDERPASS ROUTE****STANDARD SUB-STANDARD NON EXIST**

	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 () 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. MOORE
2. _____
3. _____
4. _____
5. _____
6. _____

INSPECTION REPORT FOR UNDERPASS ROUTEFEB 19 2013
Page No. _____Form BIR 3.0A
(Rev. 9-22-98)
DT-1443Field Report No. _____ Date _____
Previous Report No. _____ Date _____Bridge No. 79I02400107
Eleven Digit No.Underpass Location No. 79 - I0240 - 15.43
~~1500~~

-0-	or	-	-	over/ under	Co.	Route	Log Mile
					79	- 02826	- 0680
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)

Divided Highway LEFT RDWY () RIGHT RDWY (X) 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 24 ft.Approach Shoulder Width 17 ft. Right 10 ft. Left*Horizontal Clearance Under Bridge 71 ft. _____ IN.*Distance Between Pier Protection Guardrail and Substructure 8' ft. Right .5 ft. Left

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

*Minimum Vertical Clearance: _____ ft. _____ in.

*Show on Sketch

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 () 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. Moore
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. 79102400107
Eleven Digit No.Underpass Location No. 79 - 10240 - 1530 - 15.43

-0-	or	-	-	over/ under	79	-	02826	-	0680
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)

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

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

Width of Approach Traveled Roadway 12 ft. (Does Not Include Shoulders)

Width of Median if Divided Highway _____ ft.

Approach Shoulder Width 7 ft. Right 4.5 ft. Left*Horizontal Clearance Under Bridge 3.5 ft. 7 IN.*Distance Between Pier Protection Guardrail and Substructure 3.5 ft. Right 8.5 ft. Left

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

*Minimum Vertical Clearance: _____ ft. _____ in.

*Show on Sketch

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 () 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. _____
2. _____
3. _____
4. _____
5. _____
6. _____

Date _____

Underpass Location No. 79 - 10240 - ~~4530~~ ^{15.42}

Comments Regarding any Problems with Signing: _____

Bridge Skew _____°	
Structure Type (Main Span) _____	No. Main Spans _____
Structure Type (Appr. Spans) _____	No. Appr. Spans _____
Maximum Span Length _____ (ft.)	Total Length _____ (ft.)
Width of Bridge Out-to-Out _____ (ft.)	Right Angle to Centerline of Bridge)
Width of Bridge Along Skew _____ (ft.)	(If Unable to Measure at Right
Number of Lanes/Tracks on Bridge _____	Angle to Centerline of Bridge)

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 ()

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

BRIDGE LOC. NO. 79 I0240 ~~1530~~ -
CO. ROUTE L. M. L/R

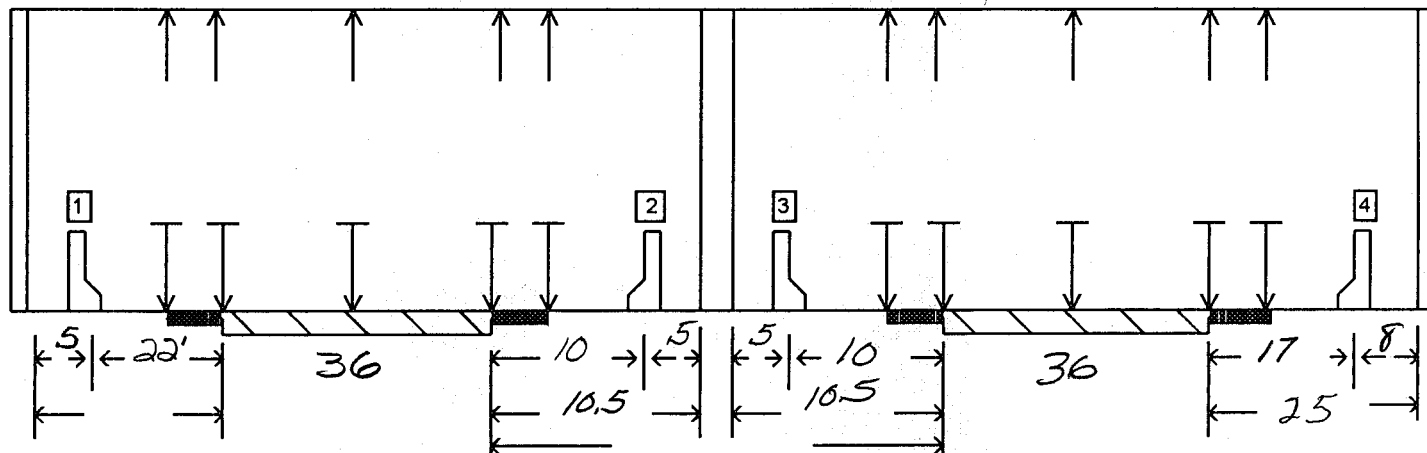
15.43

FEB 19 2013

DATE: _____

LATERAL AND VERTICAL CLEARANCES

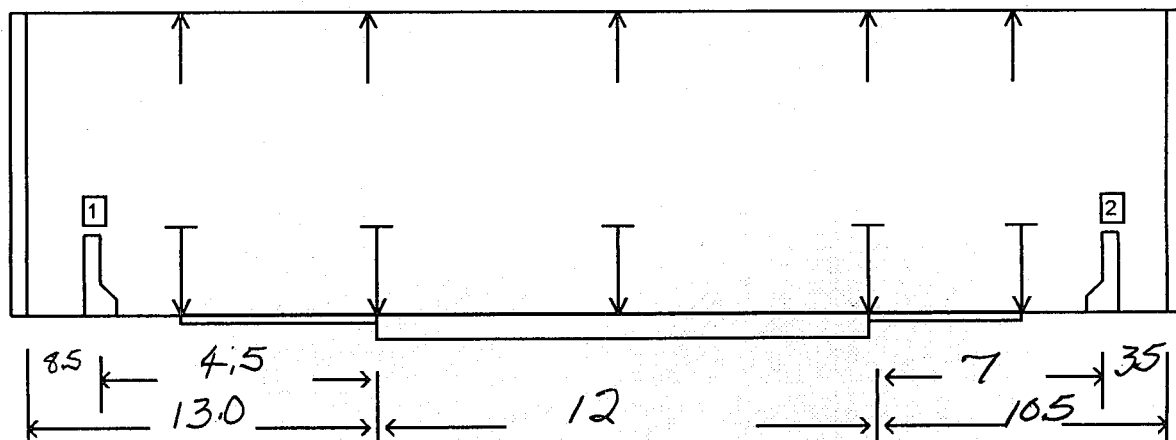
BENT/~~ABUT.~~ 1 BENT 2 BENT/~~ABUT.~~ 3



- | | | | | | | |
|-----------------------|---------|--------------------------|---------------|--------------------------|------|--------------------------|
| 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"/> |

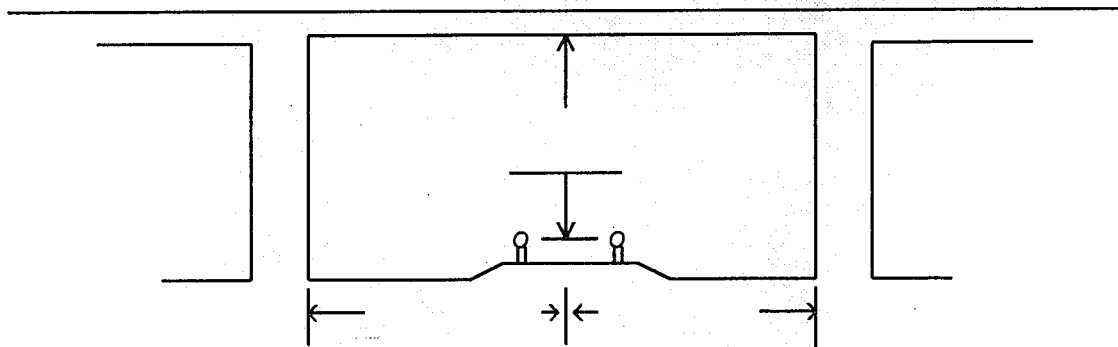
BENT/~~ABUT.~~ 3

BENT/~~ABUT.~~ 4



BENT/ABUT. _____

BENT/ABUT. _____



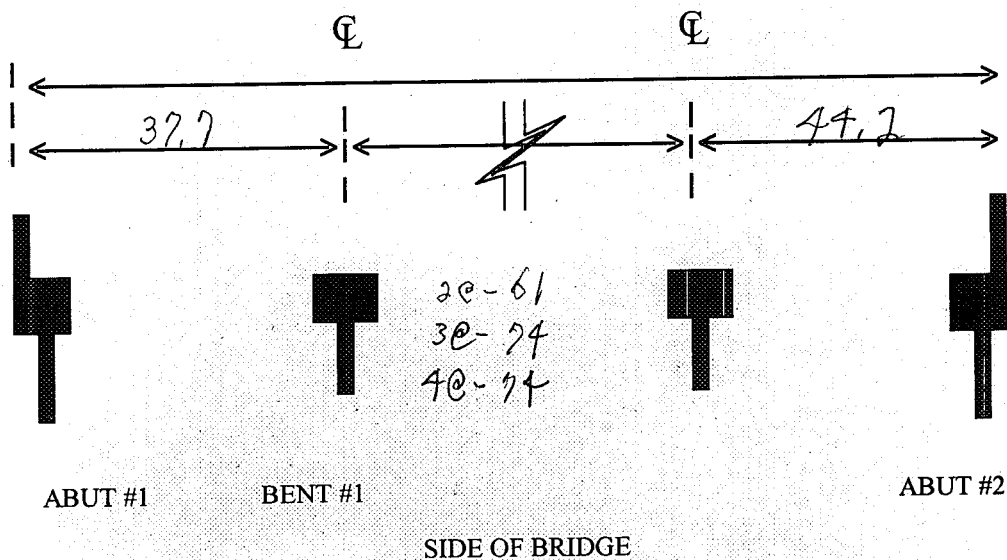
FEB 19 2013

79I02400107 79 I0240 15.43 ~~15.00~~ SKEW: 87L
BRIDGE NO.: CO. ROUTE L.M. L/R

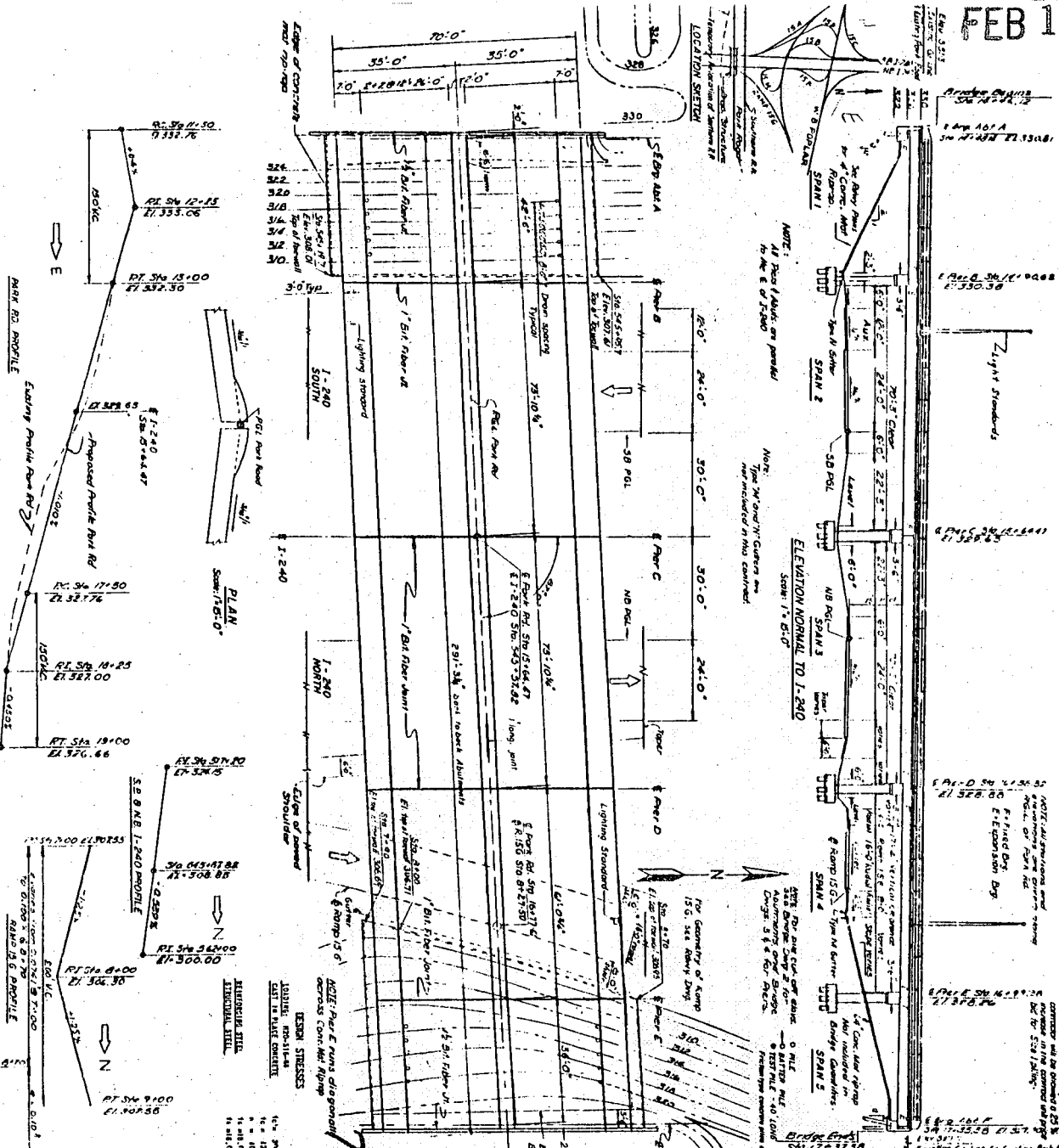
Direction of Route



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



FEB 19 2013



LIST OF DRAWINGS		DWG. NO.
BRIDGE LAYOUT	1	79-240-15157
ABUTMENTS A&F	2	79-240-15158
PIERS B&D	3	79-240-15159
PIERS C&E	4	79-240-15160
SUBSTRUCTURE SLAB DETAILS	5	79-240-15161
PRESTRESSED BEAM-SPANS 1, 2, 3	6	79-240-15162
PRESTRESSED BEAM-SPANS 4, 5	7	79-240-15163
REINFORCED CONCRETE DETAILS	8	79-240-15164
BRIDGE & HANDRAIL DETAILS	9	79-240-15165
STEEL DETAIL (ST-1, 2-100)	10	79-240-15166
STEEL DETAIL (ST-2, 3-100)	11	79-240-15167

SUMMARY OF QUANTITIES	
ITEM	QUANTITY
1. SUPERSTRUCTURE	1.00
2. ABUTMENT A	1.00
3. ABUTMENT F	1.00
4. PIER B	1.00
5. PIER D	1.00
6. PIER C	1.00
7. PIER E	1.00
8. SUBSTRUCTURE	1.00
9. ABUTMENT A	1.00
10. ABUTMENT F	1.00
11. PIER B	1.00
12. PIER D	1.00
13. PIER C	1.00
14. PIER E	1.00
15. SUBSTRUCTURE	1.00

BRIDGE LAYOUT	
BRIDGE NO. 332	79-240-15157
BRIDGE LAYOUT	79-240-15157
BRIDGE LAYOUT	79-240-15157