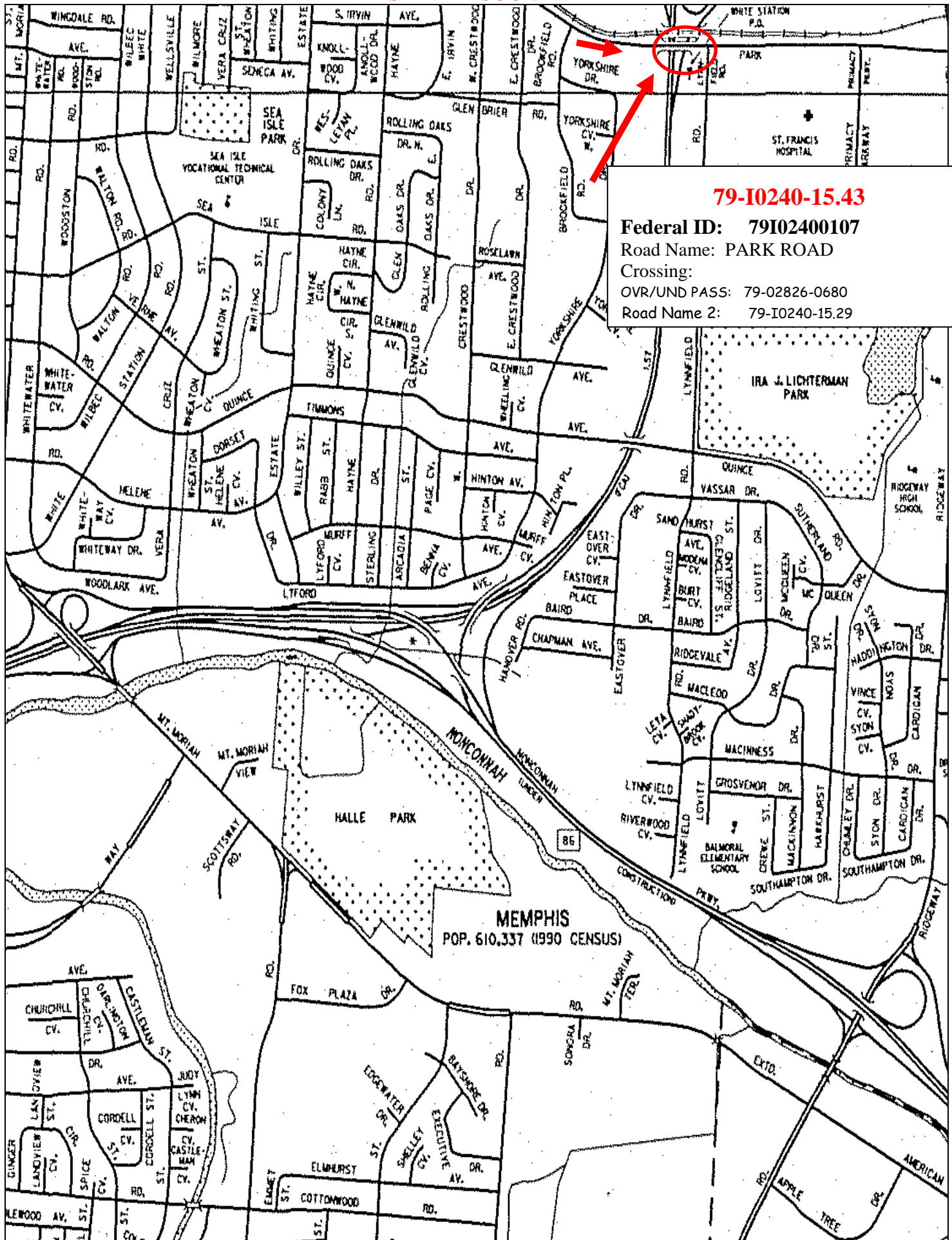


SHELBY COUNTY



BRIDGE MAINTENANCE RECOMMENDATIONS

COUNTY: SHELBY

LOCATION: 79-I0240-15.43-

CO. SEQ.: 1 SPEC. CASE: 0

MILEPOST: 15.73

CROSSING: PARK AVE / I-240

FED. BRIDGE NO.: 79I02400107

MAINT. DIST.: 79

Tennessee Department
of Transportation

REPAIR LIST NO.: N

DATE ADDED:

REVISED: 02/26/2015

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: 02/26/2015

GENERAL CONDITION: FAIR

EVALUATION DATE: 04/11/2013

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:



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

Bridge Condition Coding Form

Revised 03/02/2015

Bridge Number: 79I024001071
(Includes Item 5A)

Feature Intersected: PARK AVE / I-240

Evaluation Status: NO CHANGE BUT STILL EVALUATE

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	<u>02/26/2015</u>	(Values for Coding Items 58, 59, 60 and 62)
	EARLIEST DATE OF NEXT REGULAR INSPECTION	<u>12/27/2016</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 Trans. Appr. Rail Terminal SPEED LIMIT	1 1 1 1 40	7 GOOD CONDITION - SOME MINOR PROBLEMS.
41	STRC OPEN/CLOSED/POSTED	A	6 SATISFACTORY CONDITION - MINOR DETERIORATION OF STRUCTURAL ELEMENTS.
	A K P		5 FAIR CONDITION - ALL PRIMARY STRUCTURAL ELEMENTS ARE SOUND BUT MAY HAVE MINOR SECTION LOSS, CRACKING, SPALLING OR SCOUR.
58	DECK	6	4 POOR CONDITION - ADVANCED SECTION LOSS, DETERIORATION, SPALLING OR SCOUR.
59	SUPERSTRUCTURE	7	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.
60	SUBSTRUCTURE	6	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.
61	CHANL/CHANL PROTECTION	N	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.
62	CULVERT AND RETAIN WALL	N	0 FAILED CONDITION - OUT OF SERVICE AND BEYOND CORRECTIVE ACTION.
71	WATERWAY ADEQUACY	N	
72	APPROACH RDWY ALIGNMENT	8	
521	OVERALL CONDITION	<u>FAIR</u>	
16	LATITUDE	17 LONGITUDE	
	N 35° 5.9800'	W 89° 52.1650'	
TEAM LEADER SIGNATURE		REVIEW DATE	

Bridge Loc. No: 79 - I0240 - 15.43 Date: 02-26-15



ELEVATION RIGHT SIDE POSTED 14' 1"



RIGHT ELEVATION AT SPAN #4 RAMP LANE (TRAFFIC UNDER SPAN #4)

Bridge Loc. No: 79 - I0240 - 15.43 Date: 02-26-15



ELEVATION RIGHT SIDE POSTED "EXIT 15 B 72 WEST POPLAR AVE."



ELEVATION RIGHT SIDE POSTED "EXIT 15 A 72 EAST POPLAR AVE GERMANTOWN EXIT 30 MPH"

Bridge Loc. No: 79 - I0240 - 15.43 Date: 02-26-15



ELEVATION LEFT SIDE WT SPAN #4 RAMP LANE (TRAFFIC UNDER SPAN #4)



ELEVATION RIGHT SIDE AT SPANS #2 & #3 (TRAFFIC UNDER SPANS #2 & #3)

Bridge Loc. No: 79 - I0240 - 15.43 Date: 02-26-15



ELEVATION LEFT SIDE AT SPAN #3 (TRAFFIC UNDER SPAN)



ELEVATION LEFT SIDE AT SPAN #2 (TRAFFIC UNDER SPAN)

Bridge Loc. No: 79 - I0240 - 15.43 Date: 02-26-15



SPAN #1, BOTTOM OF DECK



ABUTMENT #1

Bridge Loc. No: 79 - I0240 - 15.43 Date: 02-26-15



BENT #1, FRONT SIDE



BRIDGE NO. ON BOTTOM

Bridge Loc. No: 79 - I0240 - 15.43 Date: 02-26-15



BRIDGE NO. ON TOP



LOOKING AHEAD ON ROUTE

Bridge Loc. No: 79 - I0240 - 15.43 Date: 02-26-15



SPAN #1 JOINT MATERIAL PEELING & FILLED WITH DEBRIS WITH HEADER SPALLING



LOOKING RIGHT

Bridge Loc. No: 79 - I0240 - 15.43 Date: 02-26-15



VIEW ACROSS TOP OF DECK



LOOKING LEFT

Bridge Loc. No: 79 - I0240 - 15.43 Date: 02-26-15



SPAN #5 JOINT MATERIAL PEELING & FILLED WITH DEBRIS WITH HEADER SPALLING



LOOKING BACK ON ROUTE

Bridge Loc. No: 79 - I0240 - 15.43 Date: 02-26-15



ABUTMENT #2



BENT #4

Bridge Loc. No: 79 - I0240 - 15.43 Date: 02-26-15



SPAN #5, BOTTOM OF DECK

BRIDGE INSPECTION REPORT

FEB 26 2015

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

Field Report No.: 22 Date: 2/25/15
Previous Report No.: 21 Date: 2-19-13
Co. Seq 01 Plans: YES (X) NO ()

Bridge No. 79I02400107 Bridge Location No. 79 - I0240 - 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: 49 Maint.Resp: 01
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 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.)

INSPECTORS

1. MOORE (TL)
2. LANE
3. LEECH
4. STEPHENSON
5. OSBORNE
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

Min. Vertical Clearance over Deck _____ (ft.-in.)
Min. Vertical Under Clearance 16'7" (ft.-in.)
Min. Lateral Under Clearance Rt. 10.5' (*. ft.)
Min. Lateral Under Clearance Lt. 9.0' (*. ft.)

FRACTURE CRITICAL:

(If Yes, Include BIR 3.9)

MAINLINE

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

UNDERWATER INSPECTION

To Be Performed By: _____ Date _____

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

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

COMMENTS:

LATITUDE: N35 ° 5.9800

LONGITUDE: W89 ° 52.1650

G.P.S. Location

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

GOOD FAIR POOR CRITICAL

Supervising Bridge Inspector: Kennie W. Moore II

PERFORMANCE EVALUATION

Time of Day Inspected 10:25 AM Weather Conditions CLOUDY, 42°±
Vehicles Observed CARS + PICKUPS

LIVE LOAD BEHAVIOR

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

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	() ()	
Transitions	(G) F P C	(X) ()	
Guardrail	(G) F P C	(X) ()	
Guardrail Terminal	(G) F P C	(+) ()	

SIGNING

	YES	NO	NEEDED	Weight Limit Posted
Paddleboards	()	(X)	()	YES () NO (X)
Vertical Clearance (<14'-6")	()	(+)	()	Gross..... Tons
NARROW ()	()	(X)	()	2 Axle..... Tons
ONE LANE BRIDGE ()	()	(+)	()	3 or more Axles.. Tons
Other Signs or Plaques:	<u>NONE</u>			
Comments Regarding any Problems with Signing:	<u>NONE</u>			

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

Bridge Location No. 79 - I0240 - 1543
Co. Route Log Mile

FEB 26 2015

Date _____

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 <u>F</u> P C	_____
Parapet	G <u>F</u> P C	_____
Railing <u>METAL</u>	<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	<u>SPANS #1 + #5 (033)</u>

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 (X)

_____ 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	G F P C	N/V		
Embankment	<u>G</u> F P C			
Bearing	G <u>F</u> P C			
Slope Paving	G <u>F</u> P C			
Rip Rap	<u>G</u> F P C			
Earthquake Devices	<u>G</u> 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 <u>F</u> P C		
Columns	G <u>F</u> P C		
Plumb	<u>G</u> F P C		
Footings	G F P C	N/V	
Piles	G F P C		
Bearing	G F P C	N/V	
Bracing CRASHWALL	G <u>F</u> P C		
Earthquake Devices	G <u>F</u> 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 02-26-15
Bridge Rating FAIR

THIS 5 SPAN CONCRETE I BEAM STRUCTURE IS IN FAIR CONDITION.
SAFETY FEATURES ARE APPROACH METAL RAILS, CONCRETE RBIDGE
PARAPETS AND UNDERPASS CRASH WALLS.

SPANS # 1 AND # 5 JOINT MATERIAL ARE PEELING AND HEADER
SPALLING.

ASPHALT WEARING SURFACE HAS HAIRLINE – FINE CRACKS.

SPAN # 5 CONCRETE BOTTOM DECK HAS DELAMINATION AND
SPALLED TO STEEL.

ALL OTHER CONCRETE BOTTOM DECKS HAVE HAIRLINE – FINE
CRACKS WITH EFFLORESCENCE.

SEVERAL CONCRETE I BEAMS HAVE CHIPPED AREAS, FINE CRACKS
AND PATCHED AREAS.

CONCRETE SUBSTRUCTURE HAS HAIRLINE CRACKS, SPALLED TO
STEEL AND JUST BEFORE SPALLING.

MINIMUM VERTICAL IS 16'7".

POSTED VERTICAL IS 14'1" AT BEGINNING OF EXIT RAMP.

ROBERT OSBORNE

INSPECTOR

CROSS SECTION: YES ☐ NO ☒ BRM: YES ☒ NO ☐

FEB 26 2015

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

SPAN. NO. 1



ELEMENT	RATING	COMMENT
TOP DECK	G P C	Full concrete
PARAPET	G P C	Full concrete
RAILS	C F P C	
DRAIN	C F P C	
JOINT	G F P C	Full with DOWEL MATERIAL
Sidewalk	G P C	Head of spreader Full concrete

FEB 26 2015

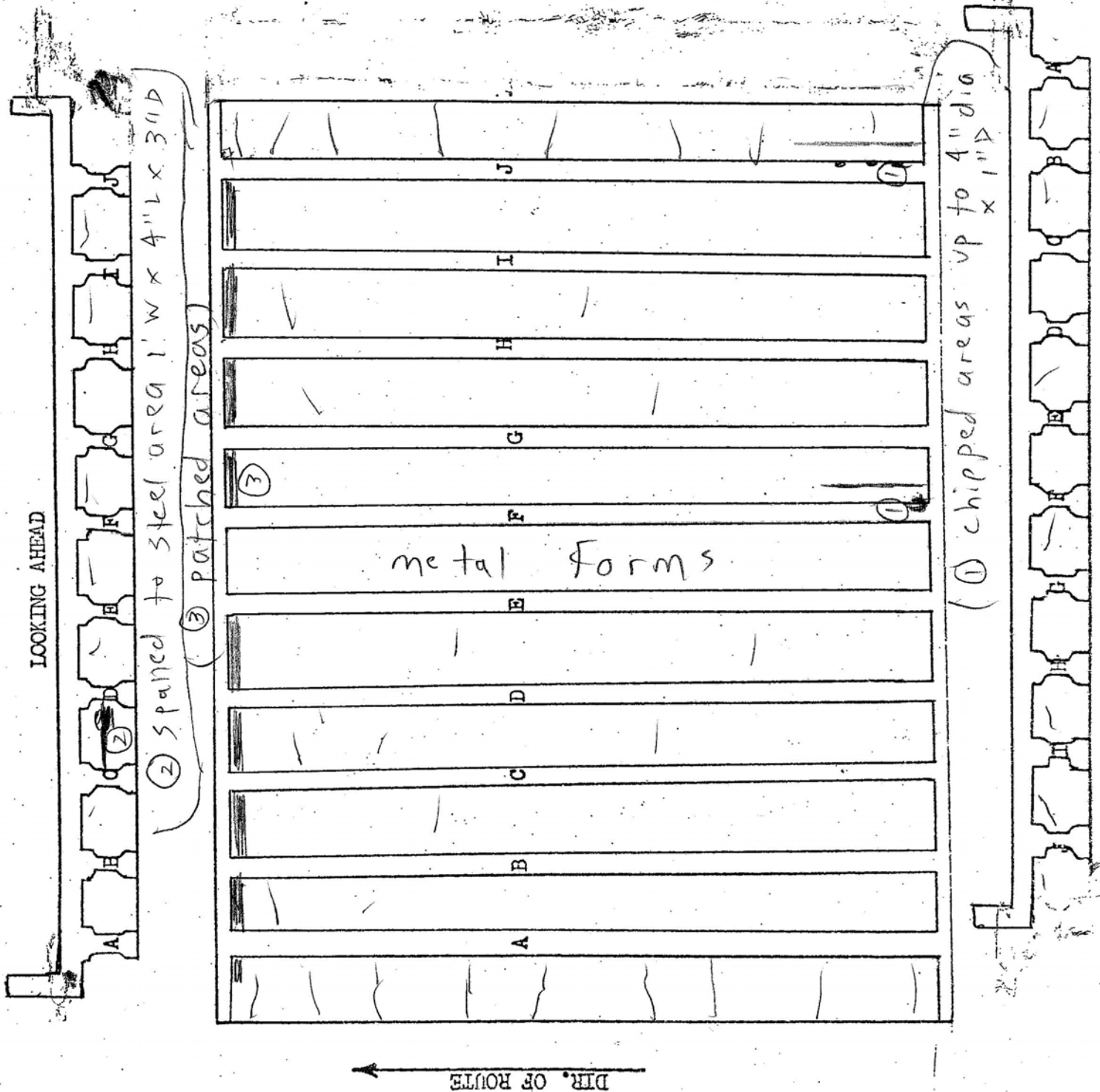
BRIDGE NO. 79-I240-15.43

BENT NO. _____ SPAN NO. 1 ABT. NO. _____ PIER NO. _____

[illegible]

FEB 26 2015

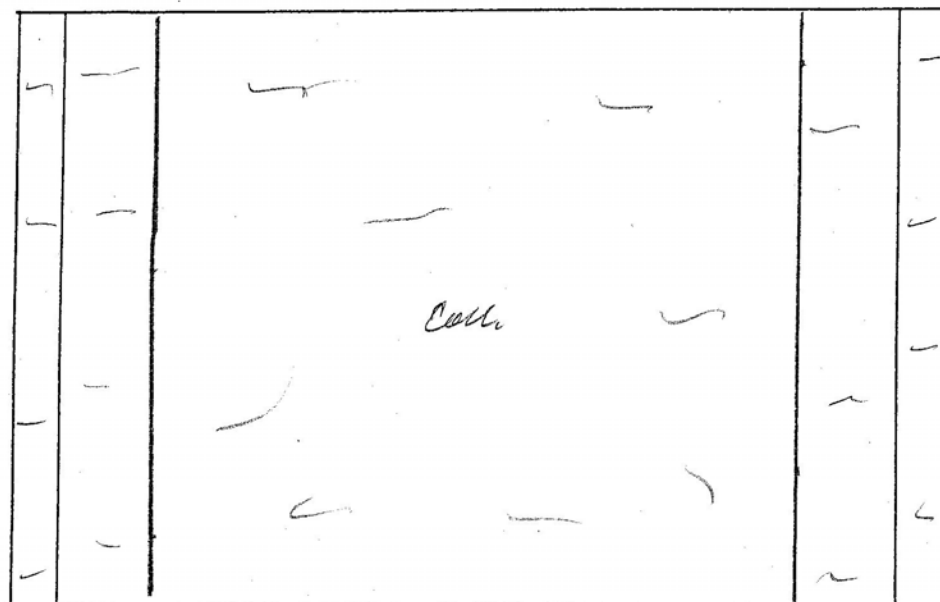
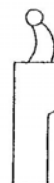
BR. NO. 29 J240 15.43 SK. LT. SPAN NO. 1



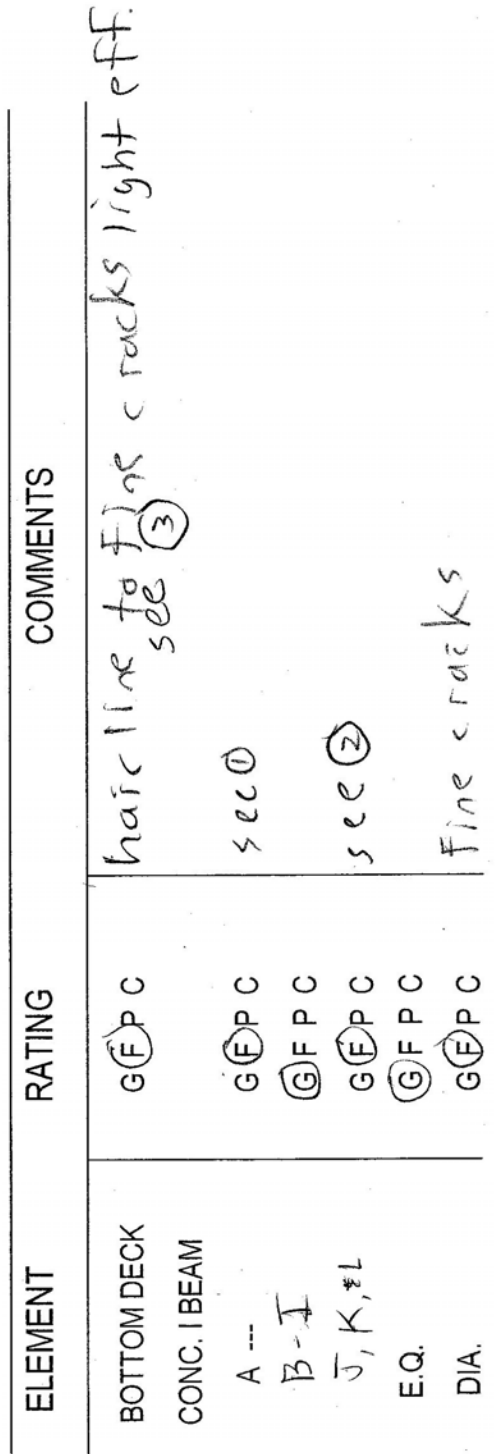
FEB 26 2015

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

SPAN. NO. 2



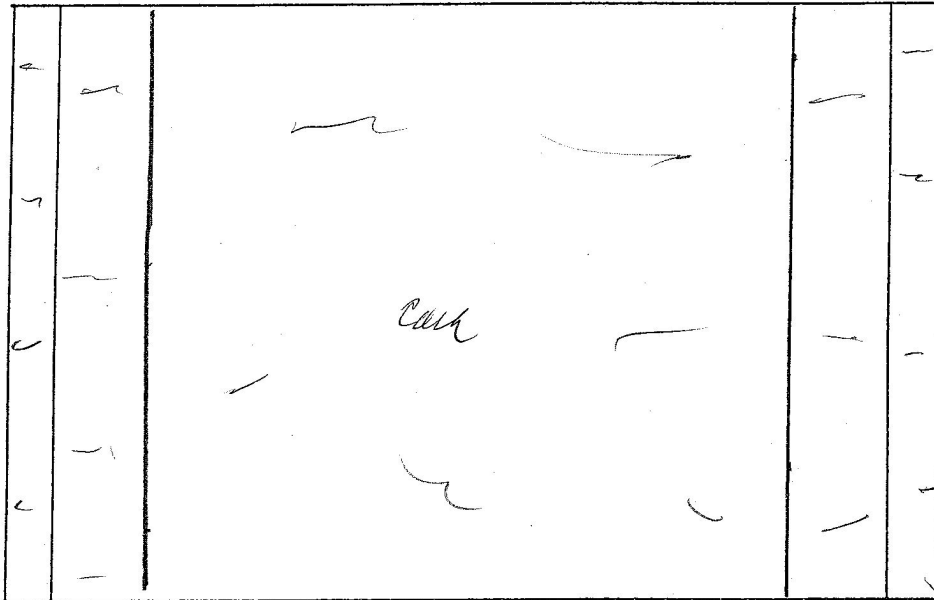
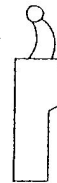
ELEMENT	RATING	COMMENT
TOP DECK	G \textcircled{F} P C	Five cracks
PARAPET	G \textcircled{F} P C	Five cracks
<i>main</i> RAILS	\textcircled{G} F P C	
DRAIN	G F P C	N/A
JOINT	G F P C	N/A
Sidewalk	G \textcircled{F} P C	Five cracks
5% Light	\textcircled{G}	



FEB 26 2015

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

SPAN. NO. 3



ELEMENT	RATING	COMMENT
TOP DECK	G [Ⓟ] P C	Random Hair Lve to fine cracks
PARAPET	G [Ⓟ] P C	Fine cracks
RAILS	G [Ⓟ] F P C	
DRAIN	G F P C	N/A
JOINT	G F P C	None
Sidewalk	G [Ⓟ] P C	Fine cracks

FEB 26 2015

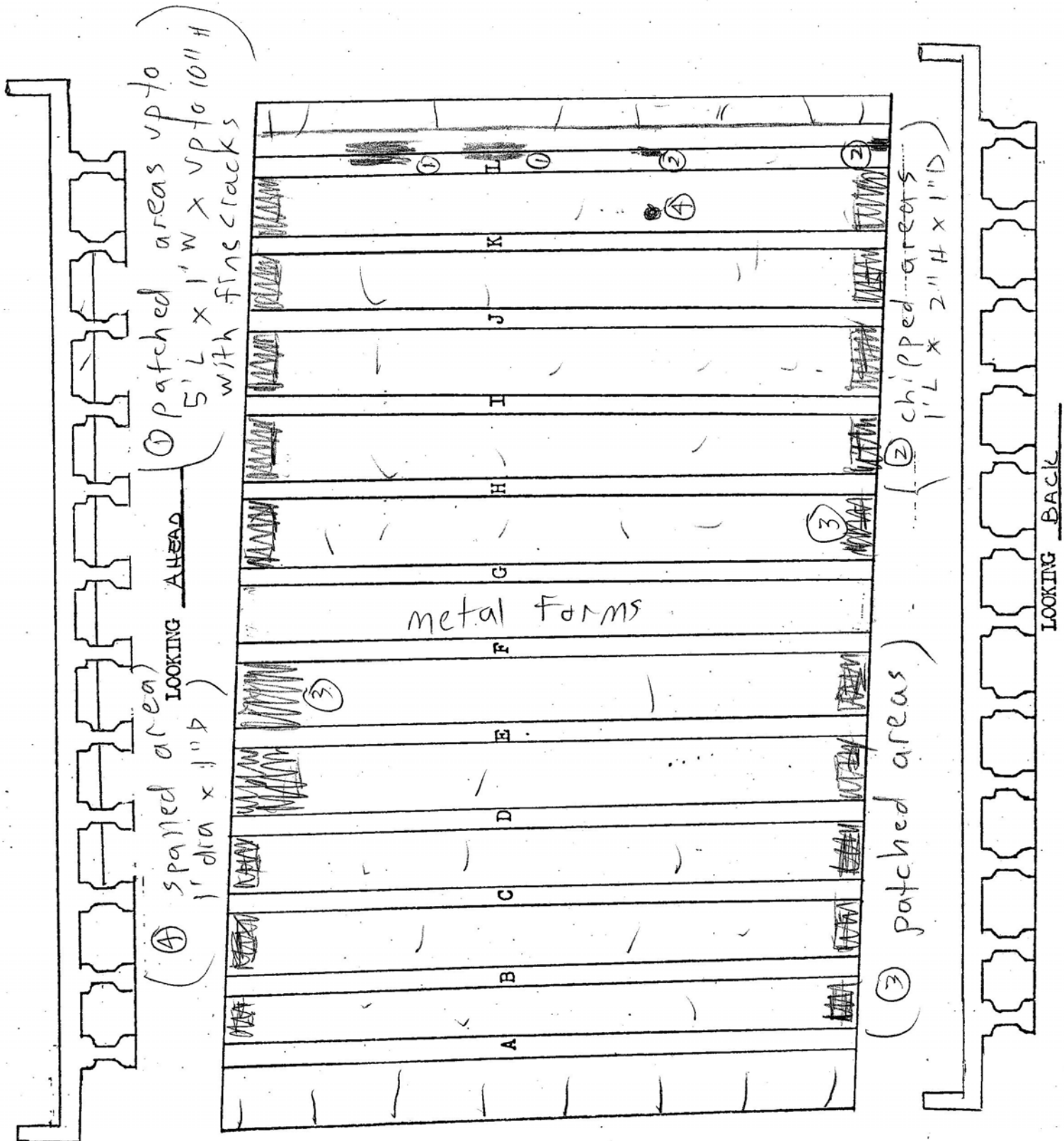
BRIDGE NO. 79 I-240 ~~150~~ 15.43BENT NO. _____ SPAN NO. 3 ABT. NO. _____ PIER NO. _____

ELEMENT	RATING	COMMENTS
BOTTOM DECK	G F P C	see (3) (4) has hairline to fine cracks right eff.
CONC. I. BEAMS		
A B C	G F P C	
	G F P C	
D E F	G F P C	
	G F P C	
G H I	G F P C	
	G F P C	
J K L	G F P C	
	G F P C	see (1) (2)
	G F P C	
	G F P C	
	G F P C	
E.O.S	G	
BACK WALLS	G F P C	
DIA.	G F P C	hairline cracks

FEB 26 2015

BR. NO. 79 I240 15.43 SK. 8767 SPAN NO. 3

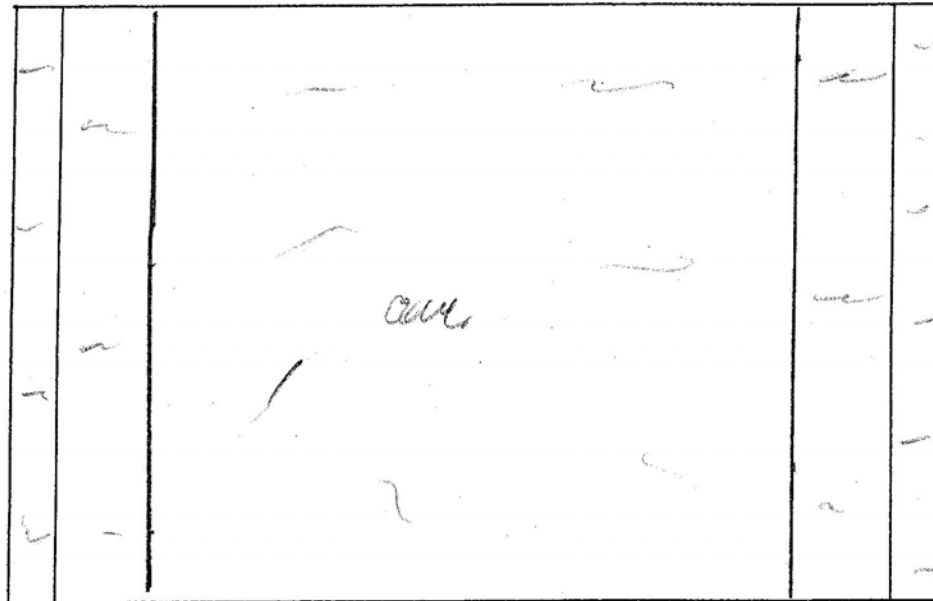
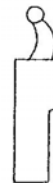
DIR. OF ROUTE



FEB 26 2015

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

SPAN. NO. 4



ELEMENT	RATING	COMMENT
TOP DECK	G \textcircled{F} P C	Random Hair Live to the center
PARAPET	G \textcircled{F} P C	Full center
RAILS main	G \textcircled{F} P C	
DRAIN	G F P C	N/A
JOINT	G F P C	N/A
Sidewalk	G \textcircled{F} P C	Full center

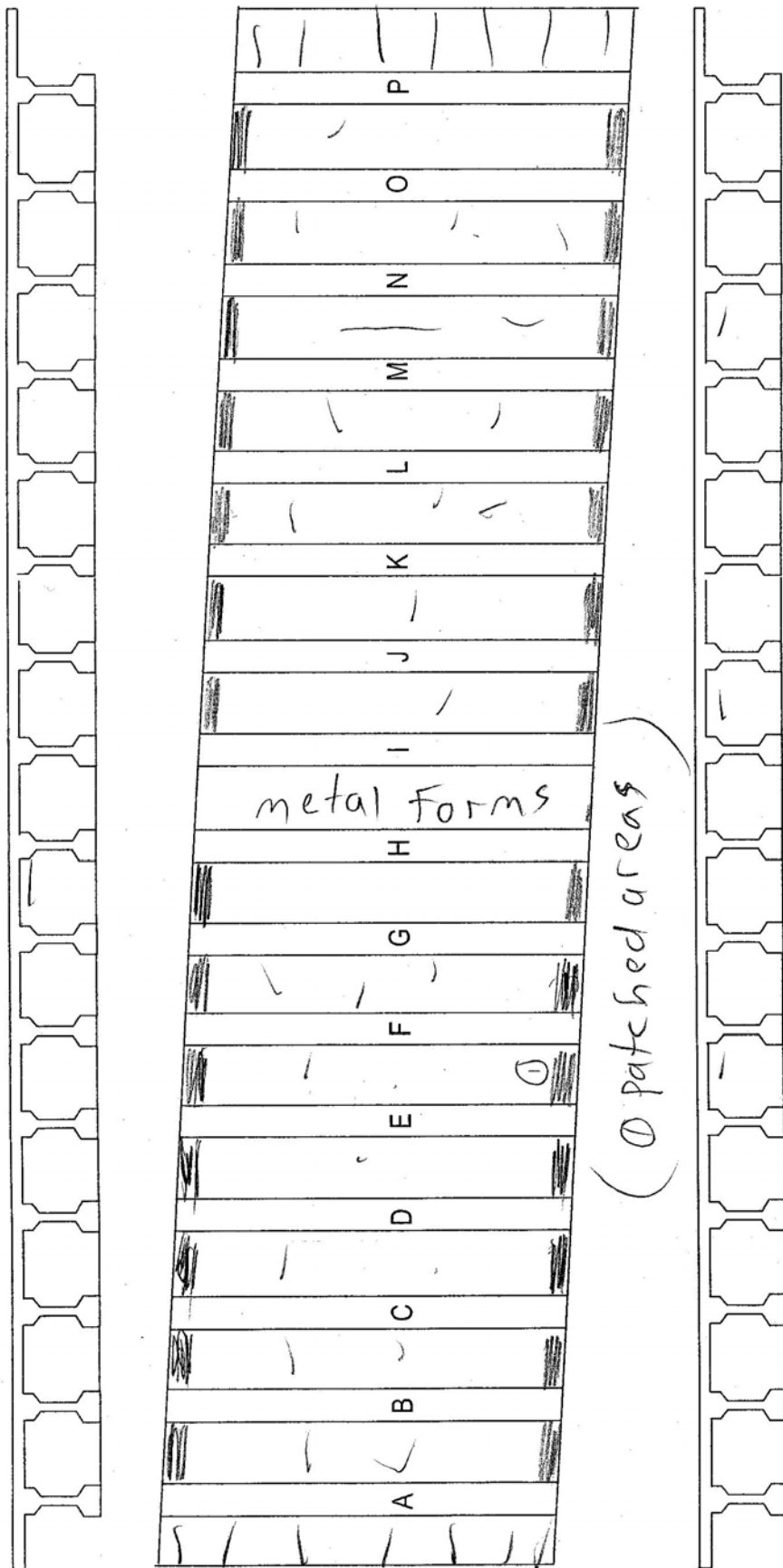
FEB 26 2015

15.43

Bridge No. 79 - I0240 - ~~1530~~

SKEW 87 LT.

Span No. 4

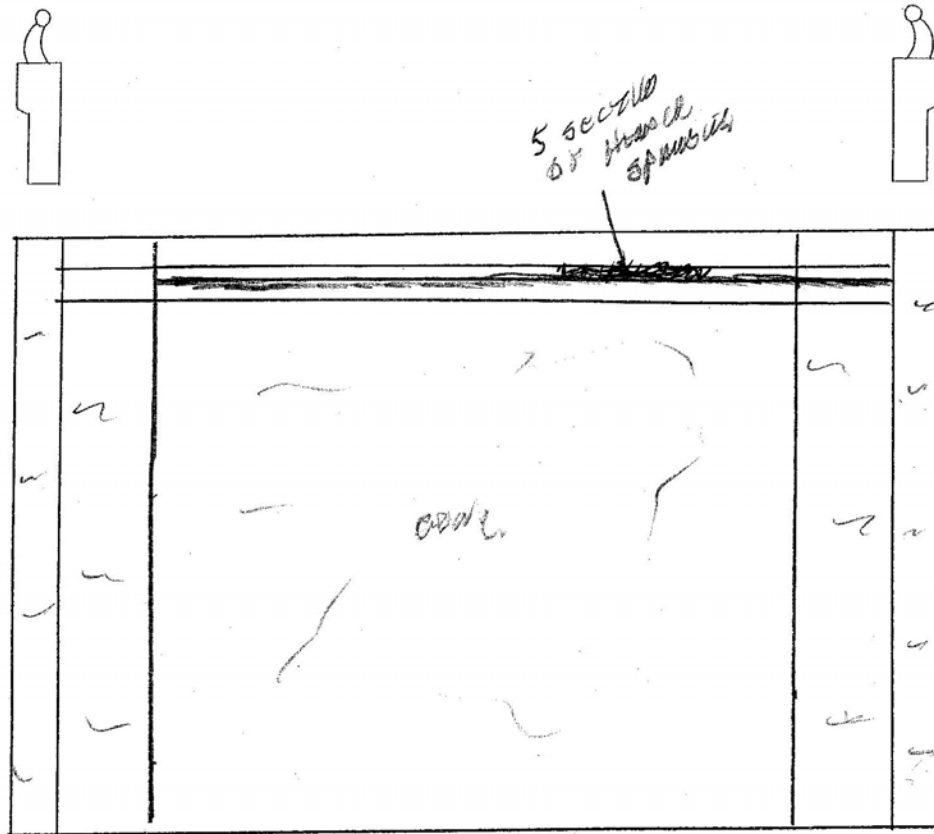


ELEMENT	RATING	COMMENTS
BOTTOM DECK	G(F)P C	see ① a has hairline to fine cracks a light eff.
CONC. I BEAM	G(F)P C	
A --- P	G F P C	hairline cracks
E - G's BACKWALLS	G F P C	
	G F P C	
	G(F)P C	
	DIA.	

FEB 26 2015

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

SPAN. NO. 5



ELEMENT	RATING	COMMENT
TOP DECK	G \textcircled{E} P C	Rivets for concrete
PARAPET	G \textcircled{E} P C	For concrete
RAILS	G \textcircled{F} P C	
DRAIN	G \textcircled{F} P C	
JOINT	G \textcircled{F} P C	
Sidewalk	G \textcircled{E} P C	Headed spurs. Fills with debris MATCHING ROCK For concrete

FEB 26 2015

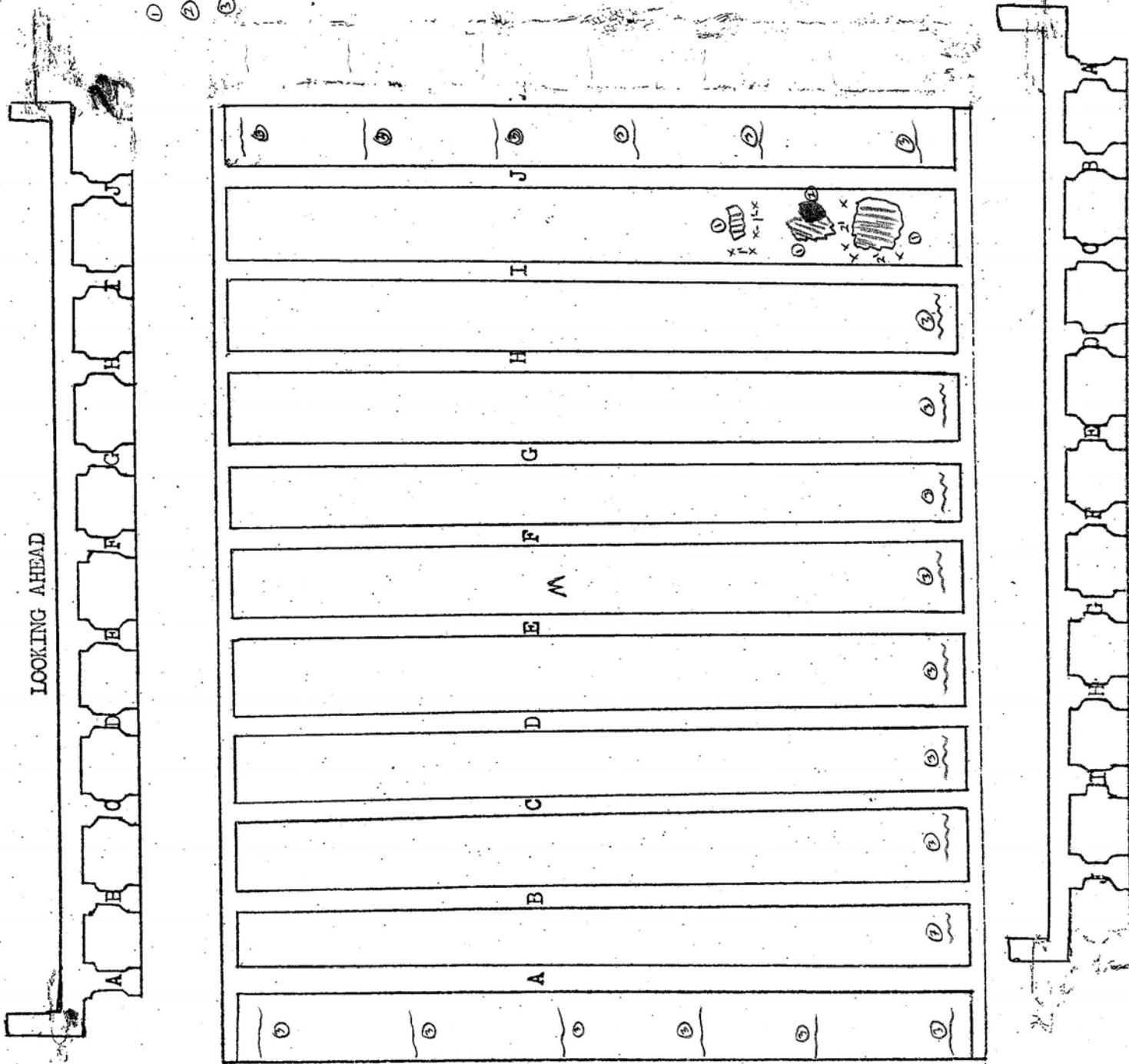
BRIDGE NO. 79 I-240 ~~1580~~ 15.43BENT NO. _____ SPAN NO. 12 ABT. NO. _____ PIER NO. _____

ELEMENT	RATING	COMMENTS
BOTTOM DECK	G \textcircled{F} P C	① delamination up to 2' L x 2' W
		② spalled to steel 2' L x 1' W x 1/2" d
CONC. I. BEAMS		③ hairline - fine cracks w/ eff
A B C	\textcircled{G} F P C	
	G F P C	
D E F	\textcircled{G} F P C	
	G F P C	
G H I	\textcircled{G} F P C	
	G F P C	
J K L	\textcircled{G} F P C	
	G F P C	
M N O	G F P C	
	G F P C	
	G F P C	
BACKFILLS	\textcircled{G} F P C	
DIA.	\textcircled{G} F P C	

FEB 26 2015

BR. NO. 79 - I240-15.43 SK. 87 LT. 5 SPAN NO. 5

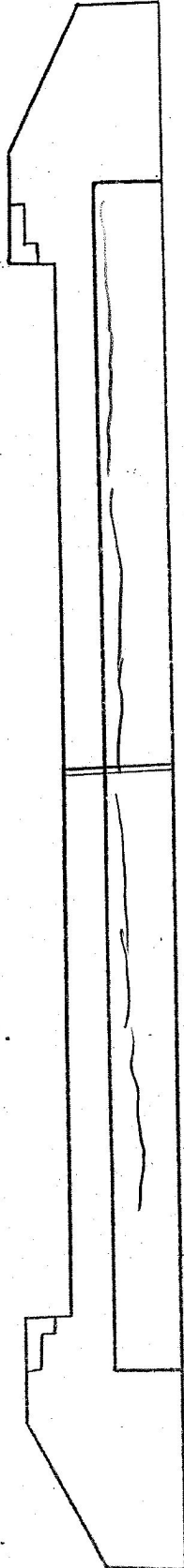
- ① delamination up to 2' L x 2' W
- ② spalled to steel 1' L x 1' W x 1/4" D
- ③ hairline - fine cracks w/eff



DIR. OF ROUTE

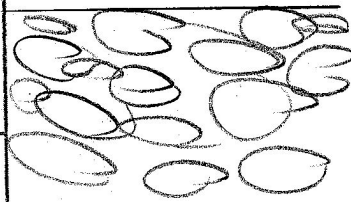
BR. NO. 79 I-240 1543 SK. 8724

FEB 26 2015
ABUT. NO. 1



LOOKING _____

SLOPE PAVING



COMMENT

RATING

ELEMENT

Light to MOD CORR.

HAIRLINE CRACKS

MOD CRACKS

G (F) P C

G (F) P C

G F P C

G (F) P C

G F P C

G (F) P C

G (F) P C

BEARINGS

CAP

PILING

EMBANKMENT

SLOPE PAVING

~~RIP RAP~~

Ad

VEG.

E.Q.

BR. NO. 79 2240 1543 SK.

FEB 26 2015
BENT NO. L

FRONT

END VIEW

PLAN VIEW

REAR CONSTRUCTION JOINT

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

CRASH WALL

(F)

① Light

(F)

HAIRLINE CRACKS

HAIRLINE CRACKS

n/v

① SPALLS TO STEEL 2" H X 8" W X UP TO 3" DEEP

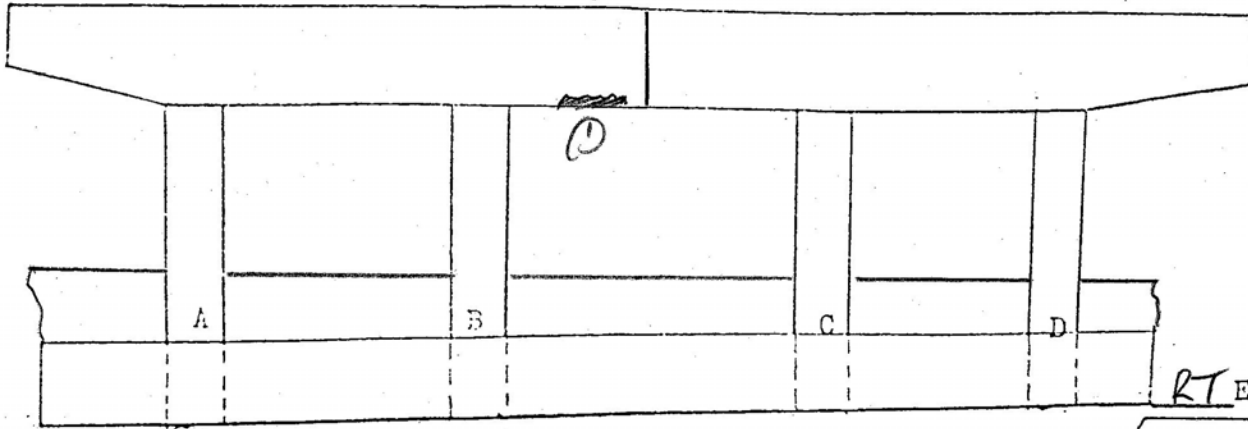
② JUST BEFORE SPALLING 2' W X 6" H X 6" L

FEB 26 2015

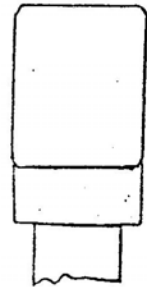
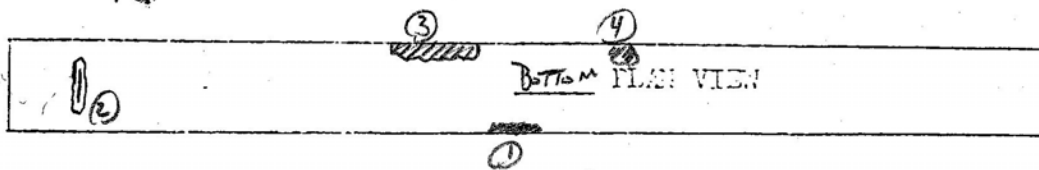
BR. NO. 79 2-240 15.43 SK. 28° BENT NO. 2

RWA

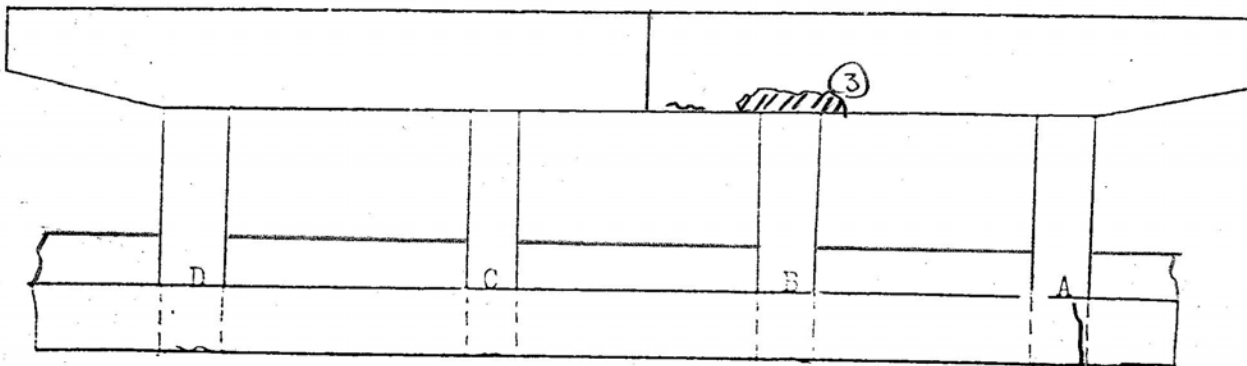
FRONT



RT END VIEW



REAR



ELEMENT

RATING

COMMENT

BEARINGS

G F P C

N/U

CAP

G F P C

 $\frac{1}{16}$ " CRACK, (1)-(4)

COLUMNS A

G F P C

(1) JUST BEFORE SPALLING
24"W X 4"H X 3"D

B

G F P C

(2) CHIPPED TO STEEL
24"L X 4"W X 1"D

C

G F P C

(3) JUST BEFORE SPALLING
36"W X 8"H X 1"-3"D

D

G F P C

(4) JUST BEFORE SPALLING
8"DIA X 1"D

CRASHWALL

G F P C

 $\frac{1}{16}$ " CRACK

E.Q.

G F P C

LIGHT

(6)

BR. NO.

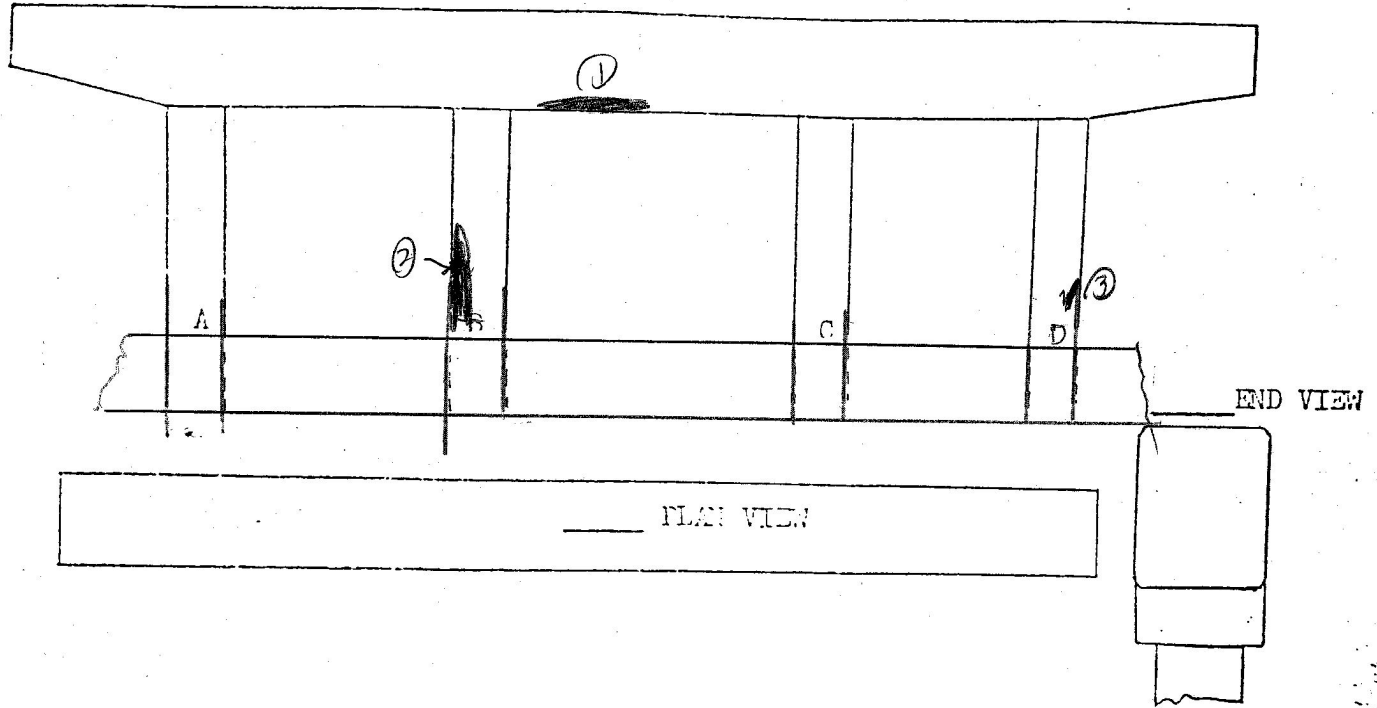
79 1210 15 43 SK. 23°

FEB 26 2015

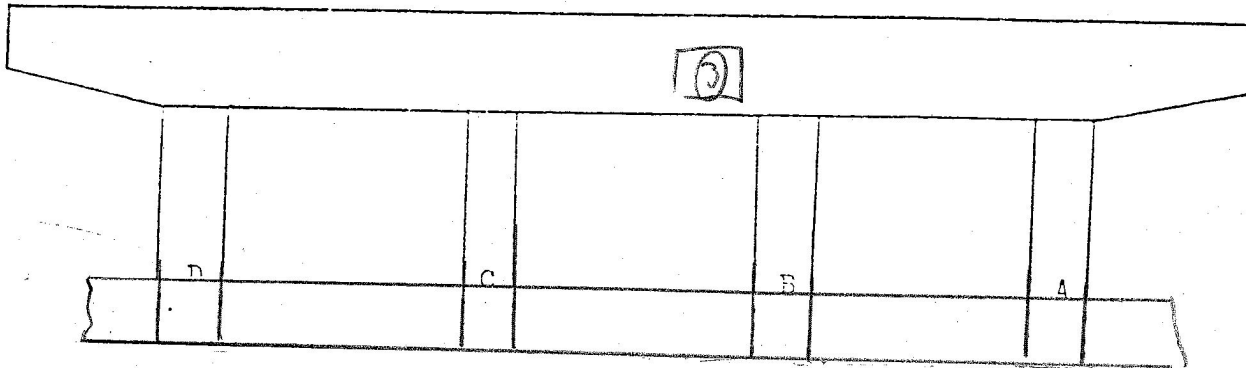
BENT NO.

3

FRONT



REAR



ELEMENT

RATING

COMMENT

BEARINGS

G F P C

✓

CAP

G (F) P C

① Just BEFORE SPALLING 4'W X 3"H

COLUMNS A

(G) F P C

B

G (F) P C

② Just BEFORE SPALLING 3'H X 2'W

C

(G) F P C

D

G F P C

③ SPALLING AREA 2'W X 1'DEEP X 2'H

CRASHWALL (G) F P C

E.Q.

(G) F P C

③ Light

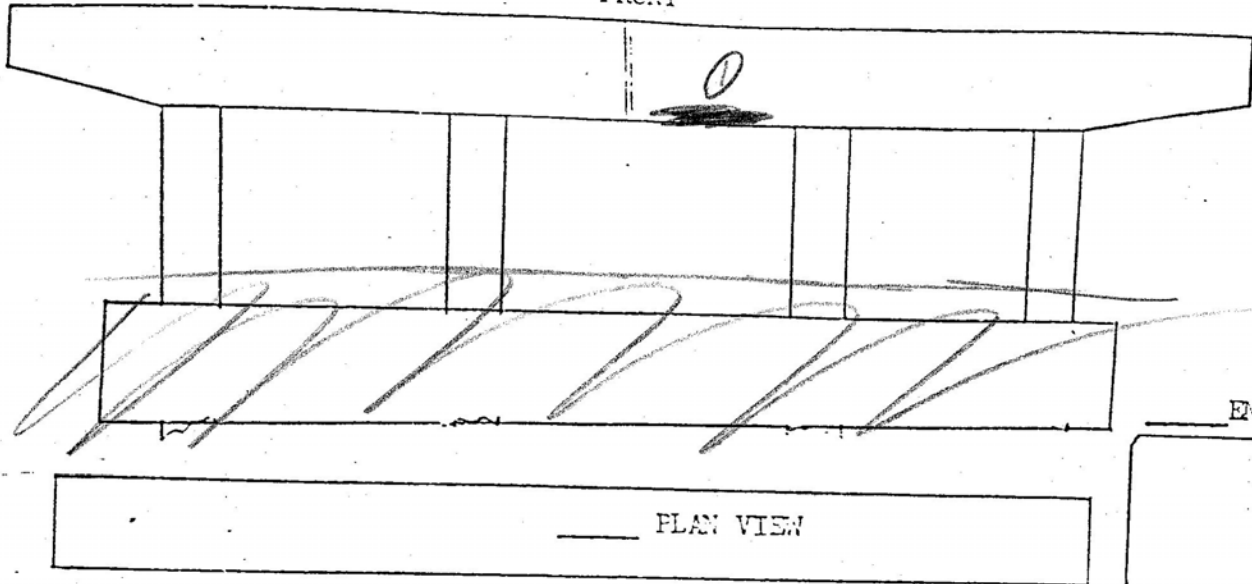
(G)

BR. NO. 79 1-240 15.43 SK.

FEB 26 2015

BENT NO. 4

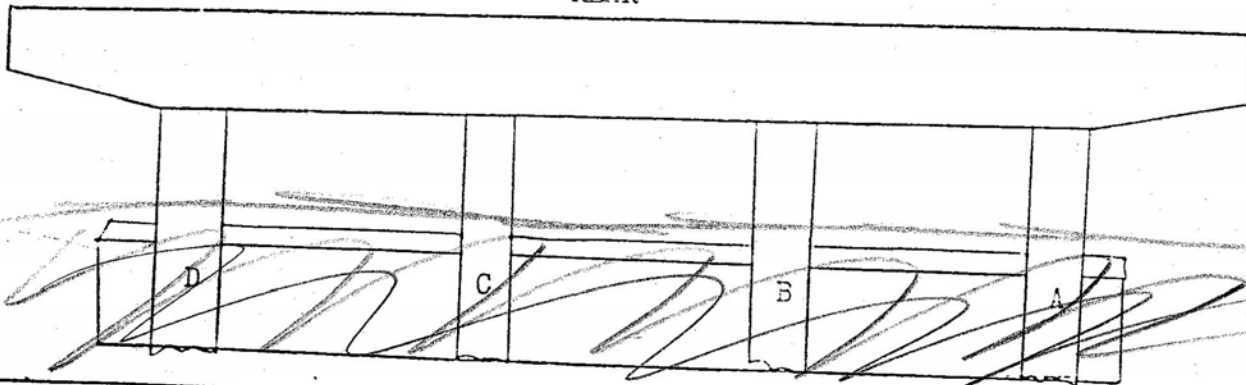
FRONT



END VIEW

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.

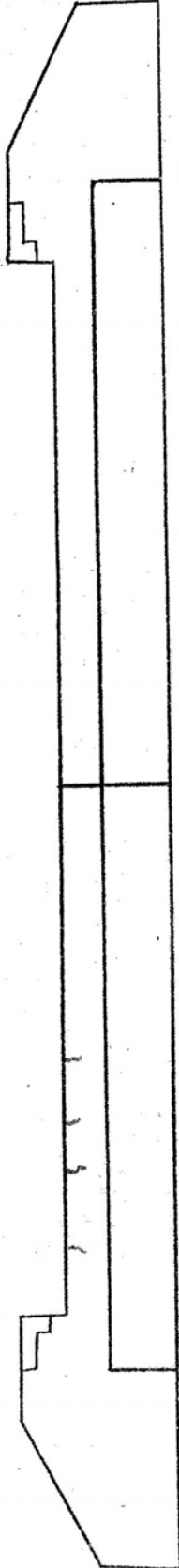
G F P C

N/V

① Just before spiral 5'W x 5'H x 2'L

BR. NO. 79 I-240 1543 SK. 87° 41'

FEB 26 2015

ABUT. NO. 2*Kula*

LOOKING _____

COMMENT

RATING

ELEMENT

BEARINGS	Ⓒ F P C	HAIRLINE CRACKS
CAP	Ⓒ F P C	N/V
PILING	G F P C	
EMBANKMENT	Ⓒ F P C	
SLOPE PAVING OR RIP RAP	G Ⓒ F P C	CRACKS UP TO 1/4"
VEG.	G F Ⓒ C	HEAVY SIDES
E.G.	Ⓒ F P C	
WINGS	Ⓒ	



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

Underpass Condition Coding Form

Revised 03/02/2015

County: 79

Route: I0240

Bridge Number: 79I02400107A
(Includes Item 5A)

Special Case: 0

County Sequence: 1

Feature Intersected: PARK AVE / I-240

Log Mile: 15.43

CODE ONLY THOSE VALUES WHICH HAVE CHANGED

ITEM #	DESCRIPTION	VALUE	UNDERPASS SAFETY FEATURES
90	LAST INSPECTION DATE	<u>02/26/2015</u>	
	EARLIEST DATE OF NEXT REGULAR INSPECTION	<u>12/27/2016</u>	
		<u> / / </u>	
10	MINIMUM V.C. OVER DECK (ROADWAY + SHOULDERS)	<u>16</u> FT. <u>7</u> IN.	515 (A) TYPE UNDERPASS BARRIER CONCRETE BARRIER OR RAIL
		<u> </u> FT. <u> </u> IN.	
520	MINIMUM V.C. OVER DECK (EXCLUDES SHOULDERS)	<u>16</u> FT. <u>7</u> IN.	Revised Barrier Type
		<u> </u> FT. <u> </u> IN.	(B) ADEQUACY OF BARRIER OR RAIL <u>0</u>
47	TOTAL HORIZONTAL UNDERCLEARANCE	<u>68</u> FT. <u>0</u> IN.	(C) ADEQUACY OF TRANSITIONS <u>0</u>
		<u> </u> FT. <u> </u> IN.	
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'
			<u> </u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u>
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 / I-240

FED. BRIDGE NO.: 79I02400107

MAINT. DIST.: 79

REPAIR LIST NO.: N

DATE ADDED:

REVISED: 02/26/2015

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:	02/26/2015	GENERAL CONDITION:	FAIR
EVALUATION DATE:	04/11/2013	STRUCTURALLY DEFICIENT:	NO
PPRM PIN NUMBER:			
H TRUCK RATING @ INV.:	20 TONS	SUFFICIENCY RATING:	70.8

SUGGESTED ROUTINE MAINTENANCE AND COMMENTS

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

GENERAL COMMENTS:



STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

Underpass Condition Coding Form

Revised 03/02/2015

Bridge Number: 79I02400107B
(Includes Item 5A)

Feature Intersected: PARK AVE / I-240 RAMP

County: 79

Route: I0240

Special Case: 0

County Sequence: 1

Log Mile: 15.42

CODE ONLY THOSE VALUES WHICH HAVE CHANGED

ITEM #	DESCRIPTION	VALUE	UNDERPASS SAFETY FEATURES
90	LAST INSPECTION DATE EARLIEST DATE OF NEXT REGULAR INSPECTION	<div style="border: 1px solid black; padding: 2px; display: inline-block;">02/26/2015</div> <div style="border: 1px solid black; padding: 2px; display: inline-block;">12/27/2016</div> ____ / ____ / ____	515 (A) TYPE UNDERPASS BARRIER METAL BARRIER OR RAIL
10	MINIMUM V.C. OVER DECK (ROADWAY + SHOULDERS)	17 FT. 4 IN. ____ FT. ____ IN.	Revised Barrier Type
520	MINIMUM V.C. OVER DECK (EXCLUDES SHOULDERS)	17 FT. 4 IN. ____ FT. ____ IN.	(B) ADEQUACY OF BARRIER OR RAIL 0
47	TOTAL HORIZONTAL UNDERCLEARANCE	46 FT. 0 IN. ____ FT. ____ IN.	(C) ADEQUACY OF TRANSITIONS 0
54	MINIMUM VERTICAL UNDERCLEARANCE (EXCLUDES SHOULDERS) Circle One: H R ____ FT. ____ IN.		(D) ADEQUACY OF TERMINALS 1
55	MINIMUM LATERAL UNDERCLEARANCE ON RIGHT SIDE Circle One: H R ____ FT. ____ IN.		554 VERTICAL CLEARANCE LISTED ON HEIGHT POSTING ____ FT. ____ IN. ____ FT. ____ IN.
56	MINIMUM LATERAL UNDERCLEARANCE ON LEFT SIDE	____ FT. ____ IN.	16 LATITUDE 17 LONGITUDE N 35° 5.9800' W 89° 52.1650'
521	OVERALL CONDITION	FAIR _____	HEIGHT POSTED AT BOTH APPROACHES? YES [] NO [] N/A []
555	COMMENTS	<div style="border-bottom: 1px solid black; height: 15px; margin-bottom: 5px;"></div> <div style="border-bottom: 1px solid black; height: 15px; margin-bottom: 5px;"></div> <div style="border-bottom: 1px solid black; height: 15px; margin-bottom: 5px;"></div> <div style="border-bottom: 1px solid black; height: 15px; margin-bottom: 5px;"></div> <div style="border-bottom: 1px solid black; height: 15px; margin-bottom: 5px;"></div>	

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 / I-240 RAMP

FED. BRIDGE NO.: 79I02400107

MAINT. DIST.: 79

Tennessee Department
of Transportation

REPAIR LIST NO.: N

DATE ADDED:

REVISED: 02/26/2015

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: 02/26/2015

GENERAL CONDITION: FAIR

EVALUATION DATE: 04/11/2013

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:

FEB 26 2015

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. _____

Co. _____

Route _____

Log Mile _____

Railroad/Walkway _____

or _____

Co. _____

Route _____

Log Mile _____

over/
under

Co. _____

Route _____

Log Mile _____

County _____

Road Name #2: _____

Year Constructed _____

Structure Name (If Named) _____

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

23.5

ft.

Approach Shoulder Width

23.0

ft. Right

9.0

ft. Left

*Horizontal Clearance Under Bridge

68

ft.

0

in.

*Distance Between Pier Protection
Guardrail and Substructure0.5

ft. Right

1.0

ft. Left

*Width of Sidewalk Under Bridge

—

ft. Right

—

ft. Left

*Minimum Vertical Clearance:

16

ft.

8

in.

*Show on Sketch

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

Pier Protection Railing or Parapet

G (F) P C

(X)

()

()

Approach Guardrail Transitions

G F P C

()

()

(X)

Approach Guardrail

G F P C

()

()

(X)

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

NONE**INSPECTORS**1. MOORE2. LEECH

3. _____

4. _____

5. _____

6. _____

FEB 26 2015

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. _____
Co. Route Log Mileor _____ over/under _____
Railroad/Walkway Co. Route Log Mile Co. Route Log Mile

County _____

Road Name #2: _____

Year Constructed _____ Structure Name (If Named) _____

Year Widened _____ Year Rehabilitated _____

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

Divided Highway LEFT RDWY () RIGHT RDWY (X) N.A. () (2)

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

Width of Approach Traveled Roadway 48 ft. (Does Not Include Shoulders)Width of Median if Divided Highway 23.5 ft.Approach Shoulder Width 10.5 ft. Right 9.5 ft. Left*Horizontal Clearance Under Bridge 68 ft. 0 in.*Distance Between Pier Protection
Guardrail and Substructure 1.0 ft. Right 1.0 ft. Left*Width of Sidewalk Under Bridge - ft. Right - ft. Left*Minimum Vertical Clearance: 16 ft. 7 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	()	()	(X)
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**

- MOORE
- LEACH
- _____
- _____
- _____
- _____

FEB 26 2015

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. _____

Underpass Location No. _____

Eleven Digit No. _____

Railroad/Walkway _____

or

Co. _____

Route _____

Log Mile _____

over/
under

Co. _____

Route _____

Log Mile _____

County _____

Road Name #2: _____

Year Constructed _____

Structure Name (If Named) _____

Year Widened _____

Year Rehabilitated _____

GEOMETRIC FEATURES UNDER BRIDGE (*. * ft. unless otherwise noted)Divided Highway LEFT RDWY () RIGHT RDWY () N.A. (X) ③

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

Width of Approach Traveled Roadway 30 ft. (Does Not Include Shoulders)Width of Median if Divided Highway 18 ft.Approach Shoulder Width 8.5 ft. Right 5.5 ft. Left*Horizontal Clearance Under Bridge 46 ft. 0 in.*Distance Between Pier Protection Guardrail and Substructure 2.0 ft. Right 1.0 ft. Left*Width of Sidewalk Under Bridge - ft. Right - ft. Left*Minimum Vertical Clearance: 17 ft. 4 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	(X)	()	()
Approach Guardrail Terminal	(G) F P C	(X)	()	()

SIGNING FOR UNDERPASS ROUTE

Paddleboards YES () NO (X) NEEDED ()

Vertical Clearance (<14'-6") YES (X) NO () NEEDED ()

Narrow Passage YES () NO (X) NEEDED ()

One Lane Passage YES () NO (X) NEEDED ()

Other Underpass Signs Needed

POSTED @ 14'1" @ BEGINNING
OF EXIT RAMP

INSPECTORS

1. MOORE
2. LEECH
3. _____
4. _____
5. _____
6. _____

Form BIR 3.0A (Continued)

Date _____

(Rev. 9-22-98)

Underpass Location No. 79 - 10240 - ~~4530~~ 15.43
Co. Route Log Mile

DT-1443

Other Signs or Plaques: NONEComments Regarding any
Problems with Signing:NONE**BRIDGE FEATURES** (*. * ft.)

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 2 Angle to Centerline of Bridge)**BRIDGE CONDITION:**

G F P C

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

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

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

NONE

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

MINIMUM PICTURES REQUIRED

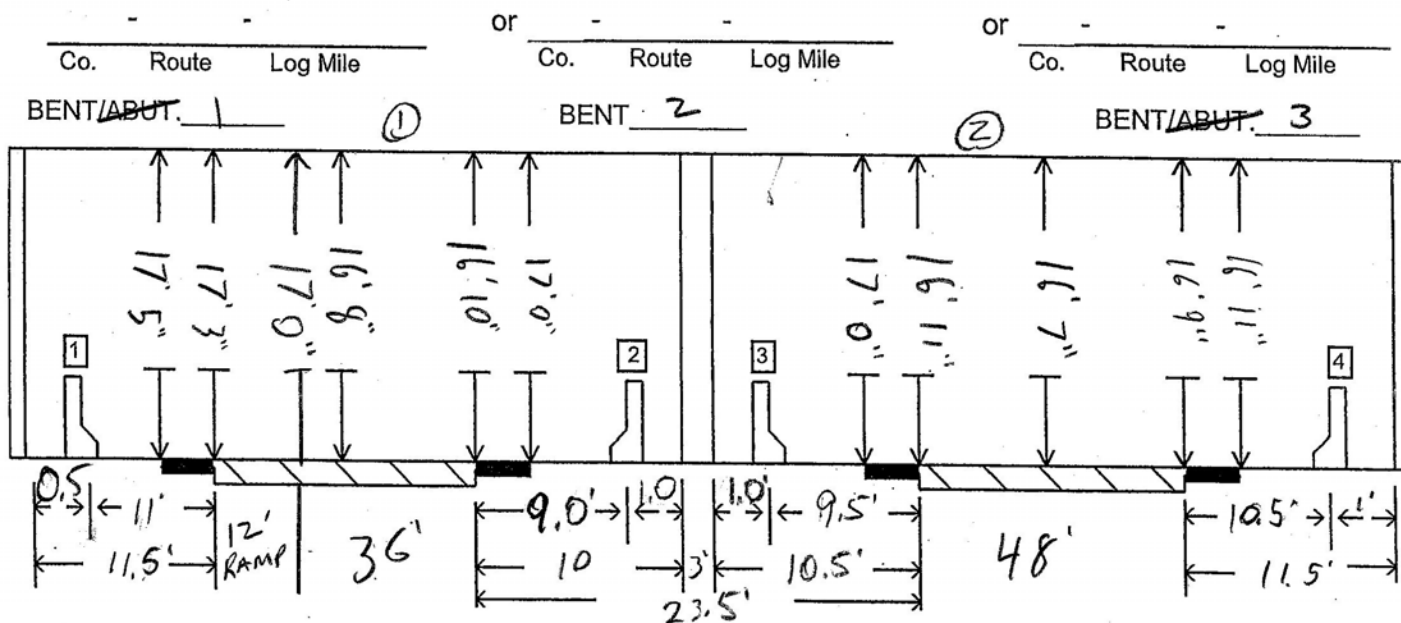
1. Elevation View of Bridge on Both Sides Showing Underpass
2. View Showing Both Approaches to Bridge
3. View Showing Safety Features
4. View Showing Any Problems

FEB 26 2015

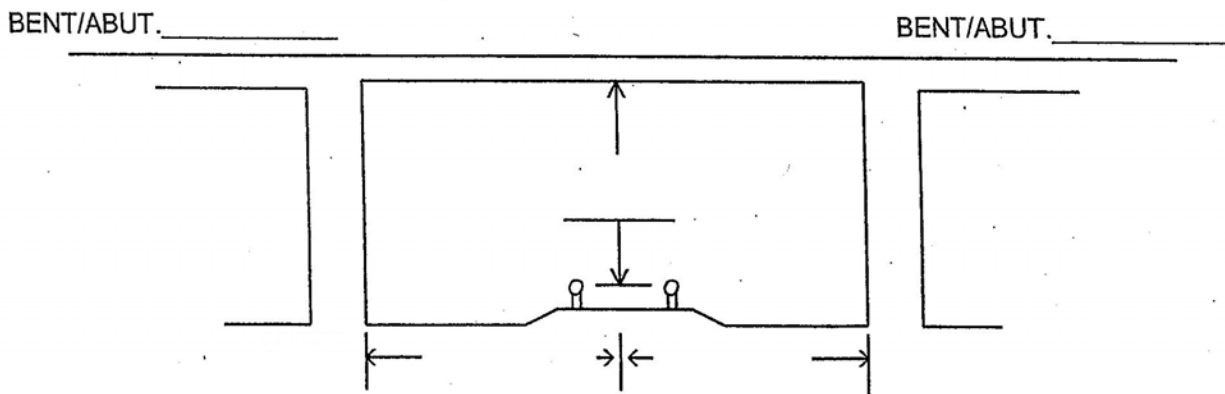
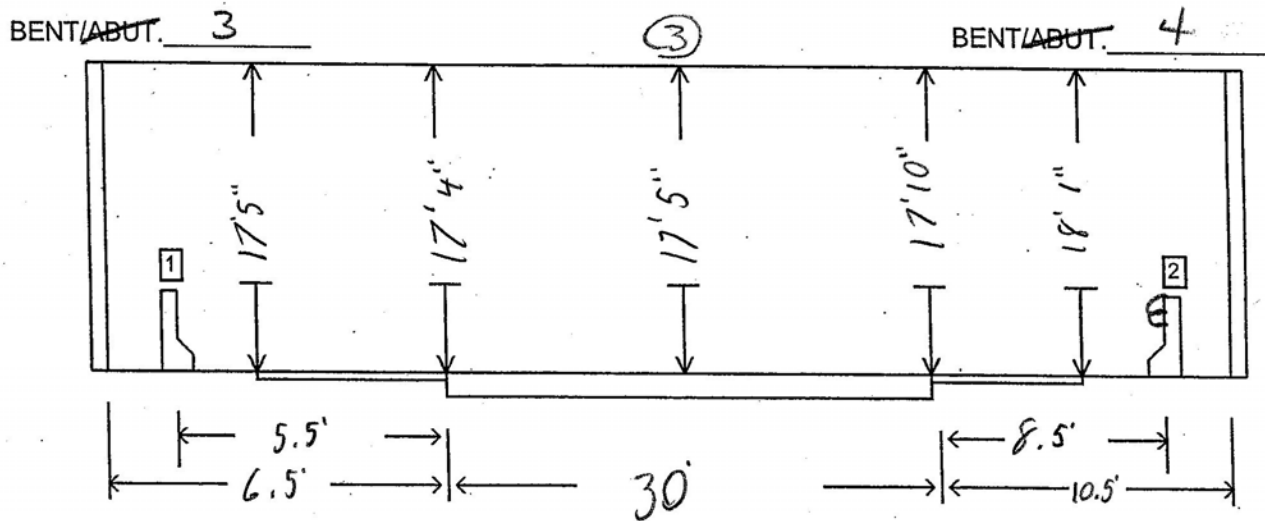
BRIDGE LOC. NO. 79-I240-15.43

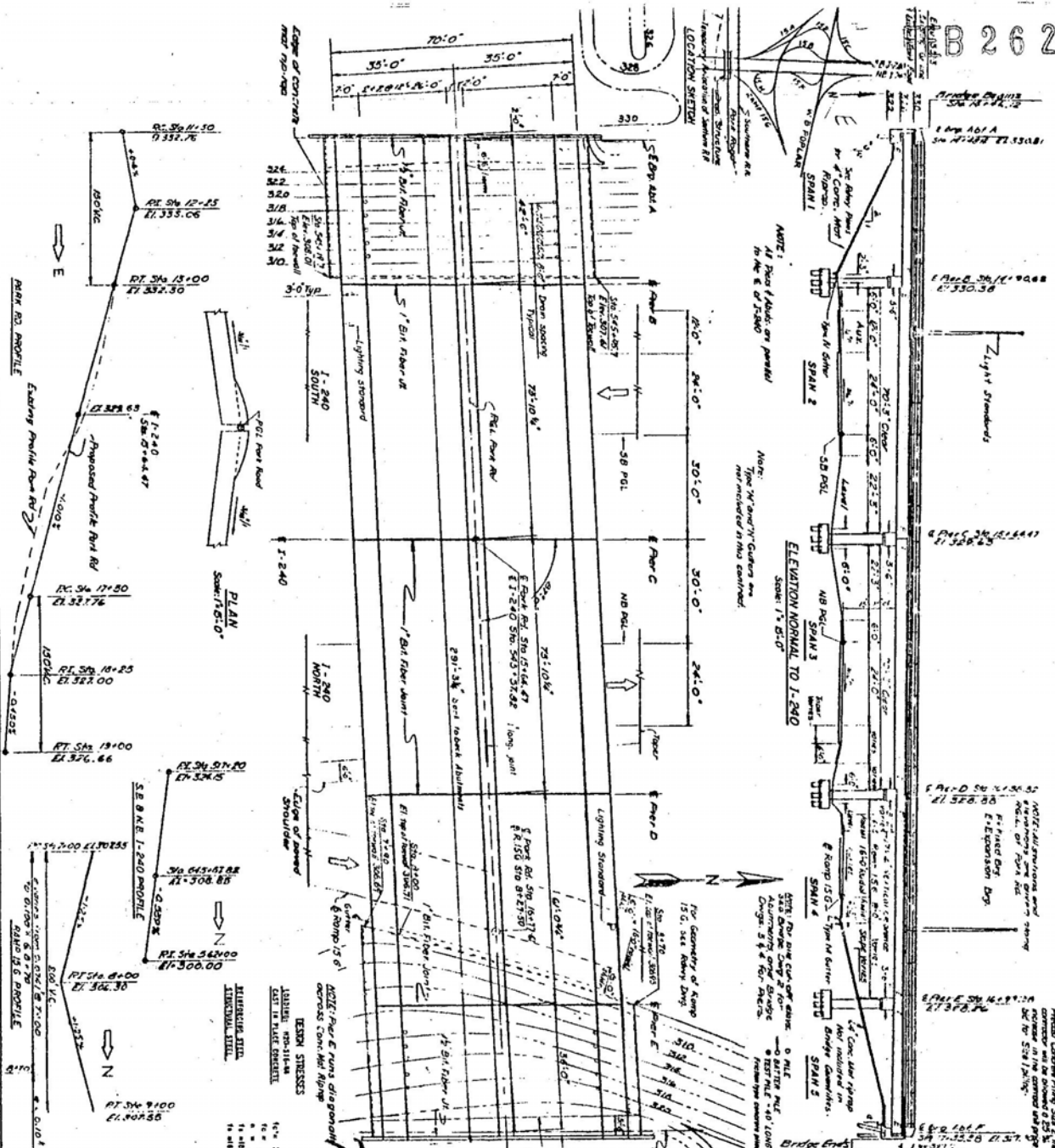
DATE: _____

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



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



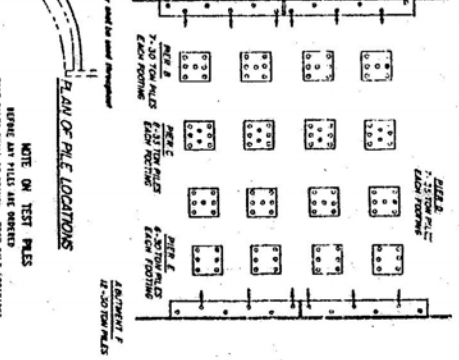


SPECIAL NOTE ON PILES

BRIDGE Dwg 1 of 10

DATE

16213



NOTE ON TEST PILES

LIST OF DRAWINGS

DWG. NO.	DESCRIPTION
1	BRIDGE LAYOUT
2	BRIDGE LAYOUT
3	BRIDGE LAYOUT
4	BRIDGE LAYOUT
5	BRIDGE LAYOUT
6	BRIDGE LAYOUT
7	BRIDGE LAYOUT
8	BRIDGE LAYOUT
9	BRIDGE LAYOUT
10	BRIDGE LAYOUT
11	BRIDGE LAYOUT
12	BRIDGE LAYOUT
13	BRIDGE LAYOUT
14	BRIDGE LAYOUT
15	BRIDGE LAYOUT
16	BRIDGE LAYOUT

MADE UP

79-240-15457

79-240-15457

SUMMARY OF QUANTITIES

ITEM	QUANTITY	UNIT
1	1.00	CU YD
2	1.00	CU YD
3	1.00	CU YD
4	1.00	CU YD
5	1.00	CU YD
6	1.00	CU YD
7	1.00	CU YD
8	1.00	CU YD
9	1.00	CU YD
10	1.00	CU YD
11	1.00	CU YD
12	1.00	CU YD
13	1.00	CU YD
14	1.00	CU YD
15	1.00	CU YD
16	1.00	CU YD

79-240-15457

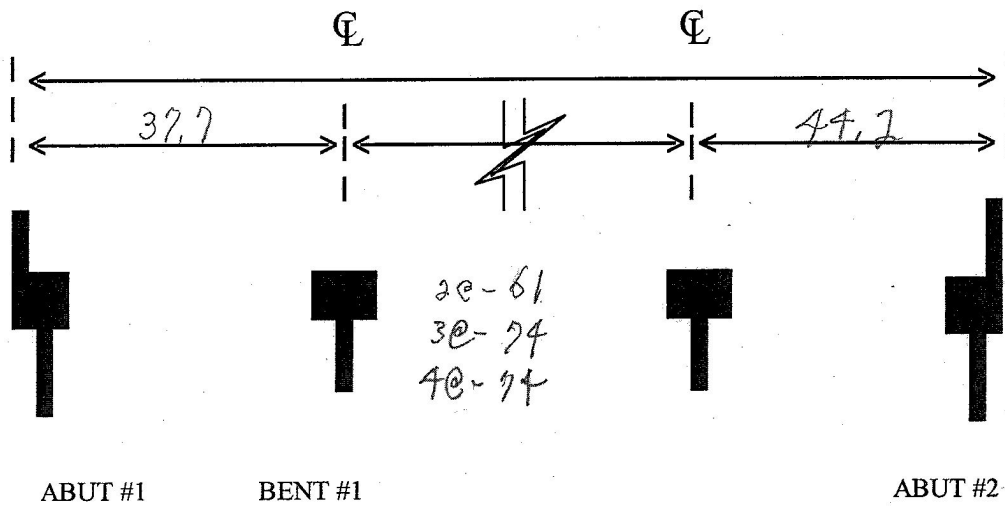
79-240-15457

FEB 26 2015

15.43
79I02400107 79 I0240 ~~1530~~ SKEW: 87L
BRIDGE NO.: CO. ROUTE L.M. L/R

Direction of Route →

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



SIDE OF BRIDGE