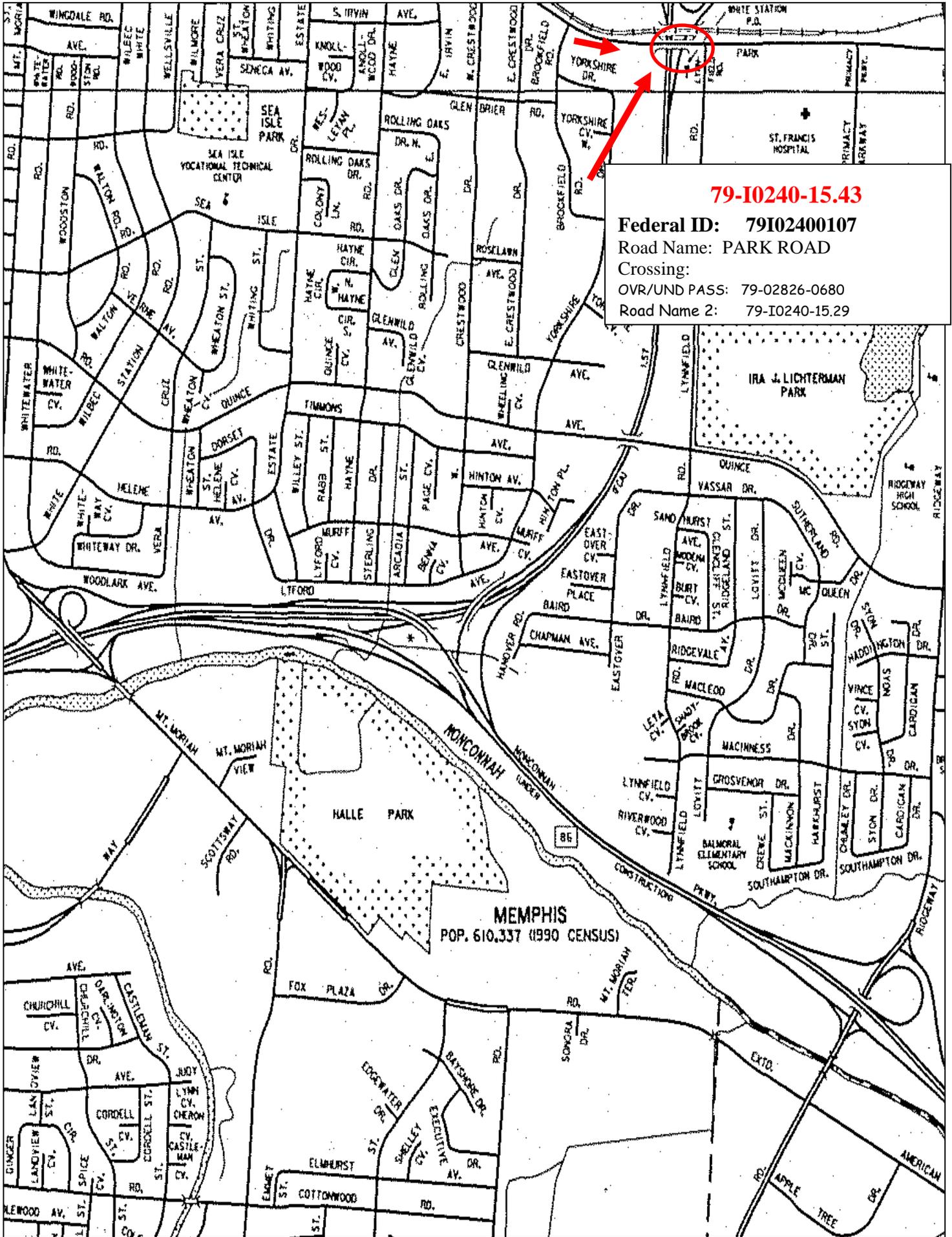


SHELBY COUNTY



79-I0240-15.43

Federal ID: 79I02400107

Road Name: PARK ROAD

Crossing:

OVR/UND PASS: 79-02826-0680

Road Name 2: 79-I0240-15.29

MEMPHIS
POP. 610,337 (1990 CENSUS)

BRIDGE MAINTENANCE RECOMMENDATIONS



Tennessee Department
of Transportation

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

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:		SUFFICIENCY RATING:	
H TRUCK RATING @ INV.:	TONS		

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	02/26/2015	(Values for Coding Items 58, 59, 60 and 62)
	EARLIEST DATE OF NEXT REGULAR INSPECTION	12/27/2016	
		<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	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.
	P		0 FAILED CONDITION - OUT OF SERVICE AND BEYOND CORRECTIVE ACTION.
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	N 35° 5.9800'	
17	LONGITUDE	W 89° 52.1650'	
		<u> </u> / <u> </u> / <u> </u>	
	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."

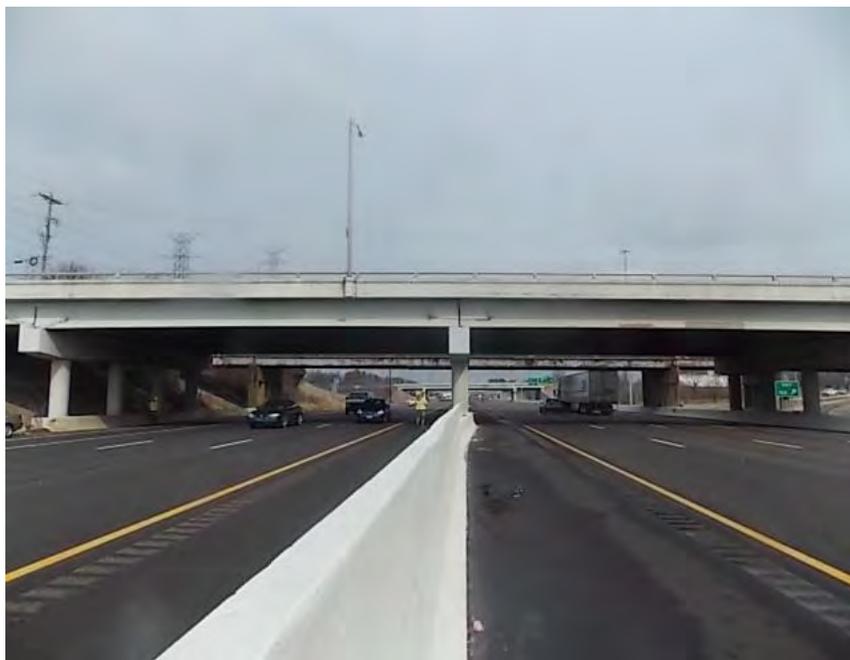


ELEVATION RIGHT SIDE POSTED "EXIT 15 A 72 EAST POPLAR AVE GERMANTOWN EXIT 30 MPH"

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: Ronnie 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	ⓐ F P C	_____
Slab	G F P C	_____
Joints	G F P C	_____
Pavement	G ⓑ P C	_____
Embankment	ⓐ F P C	_____
Drains	G F P C	_____

TRAFFIC SAFETY FEATURES

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

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

DECK

	Rating				Comments
Wearing Surface	G	(F)	P	C	_____
Deck - Structural Condition	G	(F)	P	C	_____
Curbs	G	F	P	C	_____
Median	G	F	P	C	_____
Sidewalks	G	(F)	P	C	_____
Parapet	G	(F)	P	C	_____
Railing METAL	(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	SPANS #1 + #5 (033)

SUPERSTRUCTURE

Bearing Devices	G	F	P	C	_____
Beams CIB	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	_____
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 (X)
 _____ CLEAN DRAINS ()

SUBSTRUCTURE

PILES TO BE REPLACED

ABUTMENTS

	<u>Rating</u>	<u>Comments</u>	<u>PILE(S)</u>	<u>ABUTMENT</u>
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

			<u>PILE(S)</u>	<u>PIER</u>
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

			<u>PILE(S)</u>	<u>BENT</u>
Caps	G (F) P C	_____	_____	_____
Columns	G (F) P C	_____	_____	_____
Plumb	(G) F P C	_____	_____	_____
Footings	G F P C	N/V	_____	_____
Piles	G F P C	_____	_____	_____
Bearing	G F P C	N/V	_____	_____
Bracing	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 02-26-15
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

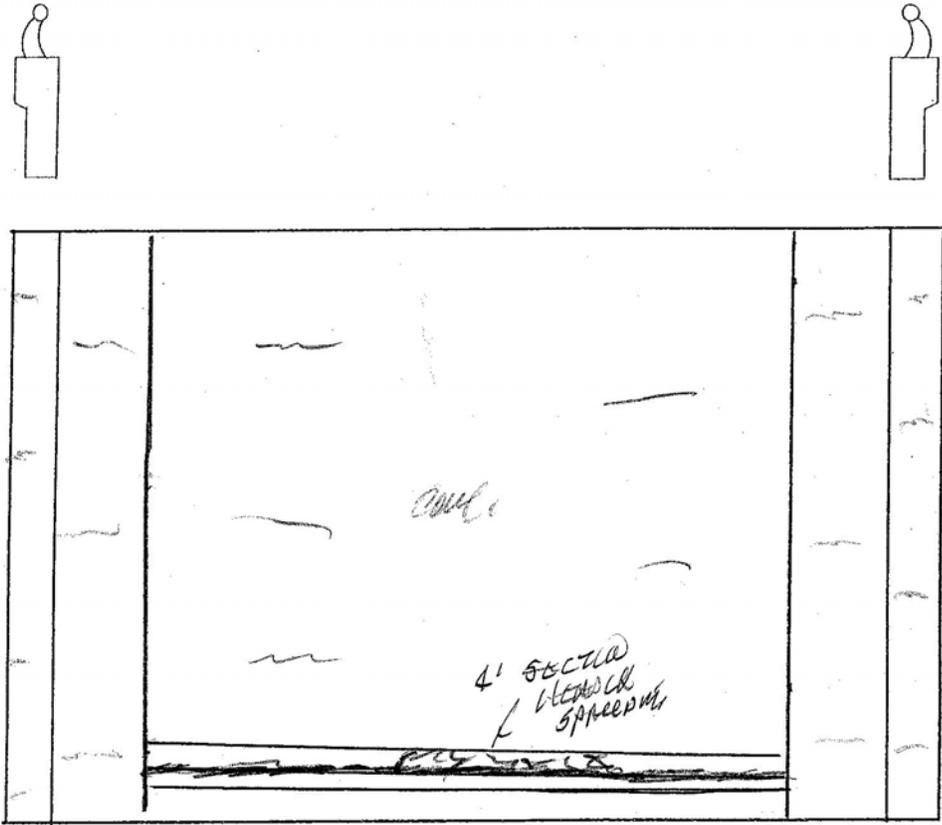
INSPECTOR

CROSS SECTION: YES NO BRM: YES NO

FEB 26 2015

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

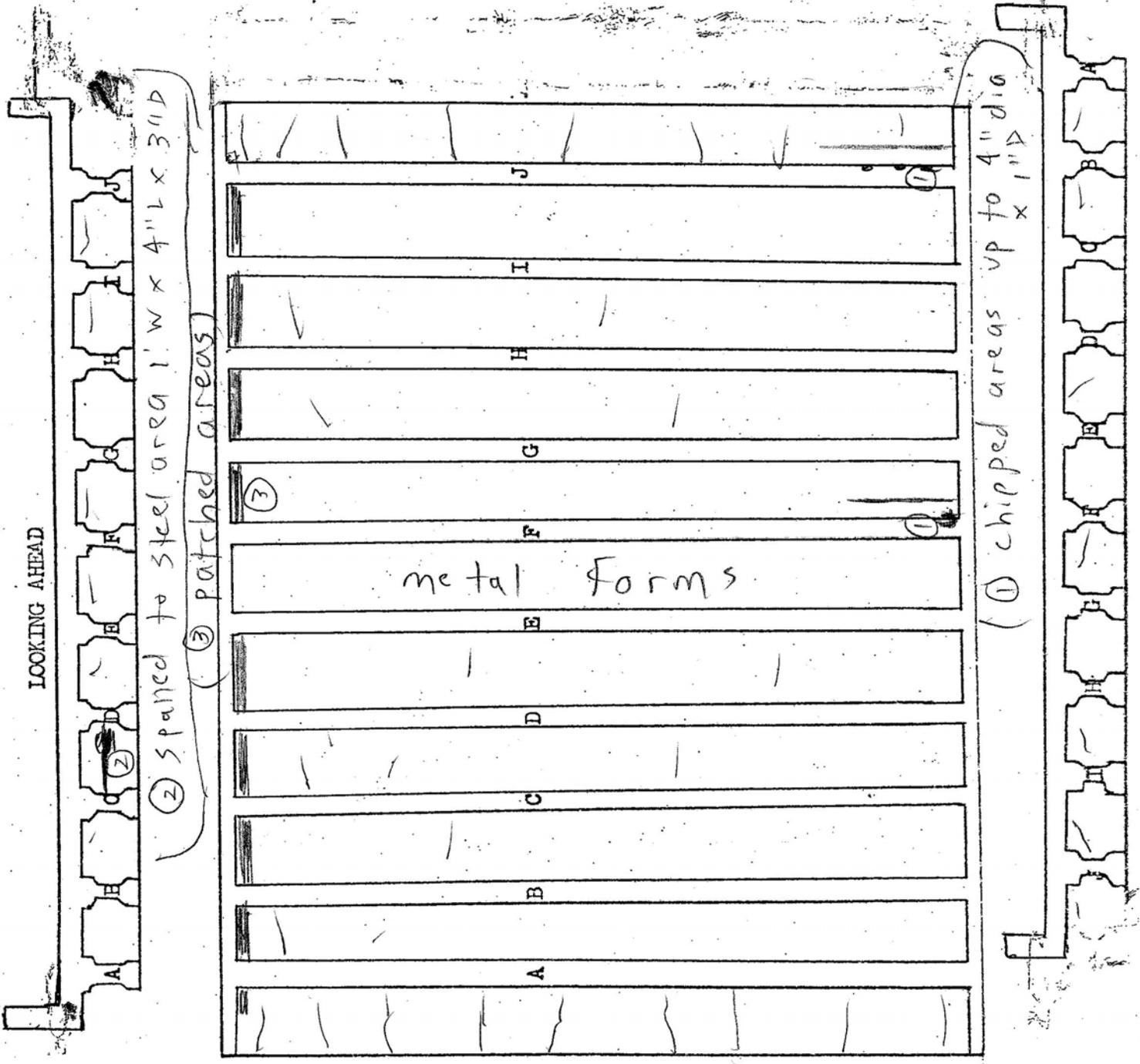
SPAN. NO. 1



ELEMENT	RATING	COMMENT
TOP DECK	G ⊕ P C	Fine cracks
PARAPET	G ⊕ P C	Fine cracks
MEAN RAILS	⊙ F P C	
DRAIN	⊙ F P C	
JOINT	G F ⊕ C	Filled with DOWNS MATERIAL between Header spandrels
Sidewalk	G ⊕ P C	Fine cracks

FEB 26 2015

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



LOOKING AHEAD

(2) spanned to steel area 1' W x 4" L x 3/4" D

(3) patched areas

metal forms

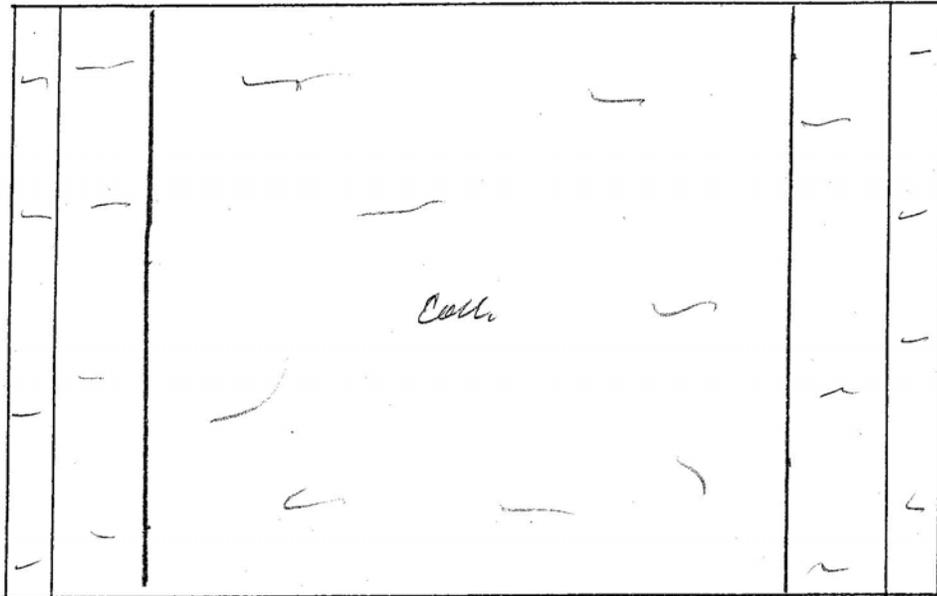
(1) chipped areas up to 4" dia x 1" D

DIR. OF ROUTE

FEB 26 2015

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

SPAN. NO. 2

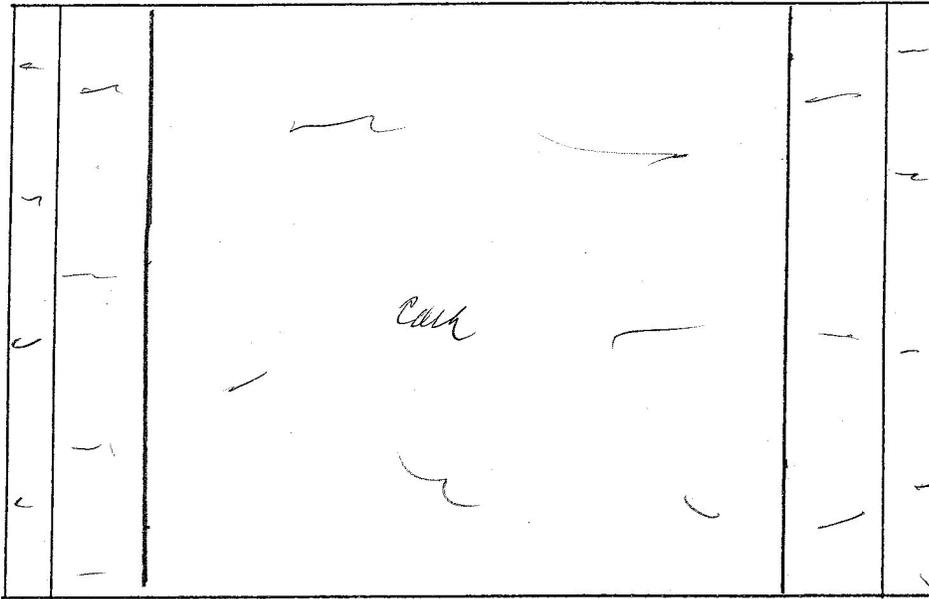
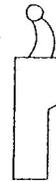
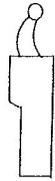


ELEMENT	RATING	COMMENT
TOP DECK	G ⊕ P C	Five cracks
PARAPET	G ⊕ P C	Five cracks
<i>main</i> RAILS	ⓐ F P C	
DRAIN	G F P C	W/M
JOINT	G F P C	M/over
Sidewalk	G ⊕ P C	Five cracks
5% Light	ⓐ	

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 full cracks
PARAPET	G [Ⓟ] P C	Full cracks
RAILS	G [Ⓞ] F P C	
DRAIN	G F P C	N/A
JOINT	G F P C	None
Sidewalk	G [Ⓟ] P C	Full cracks

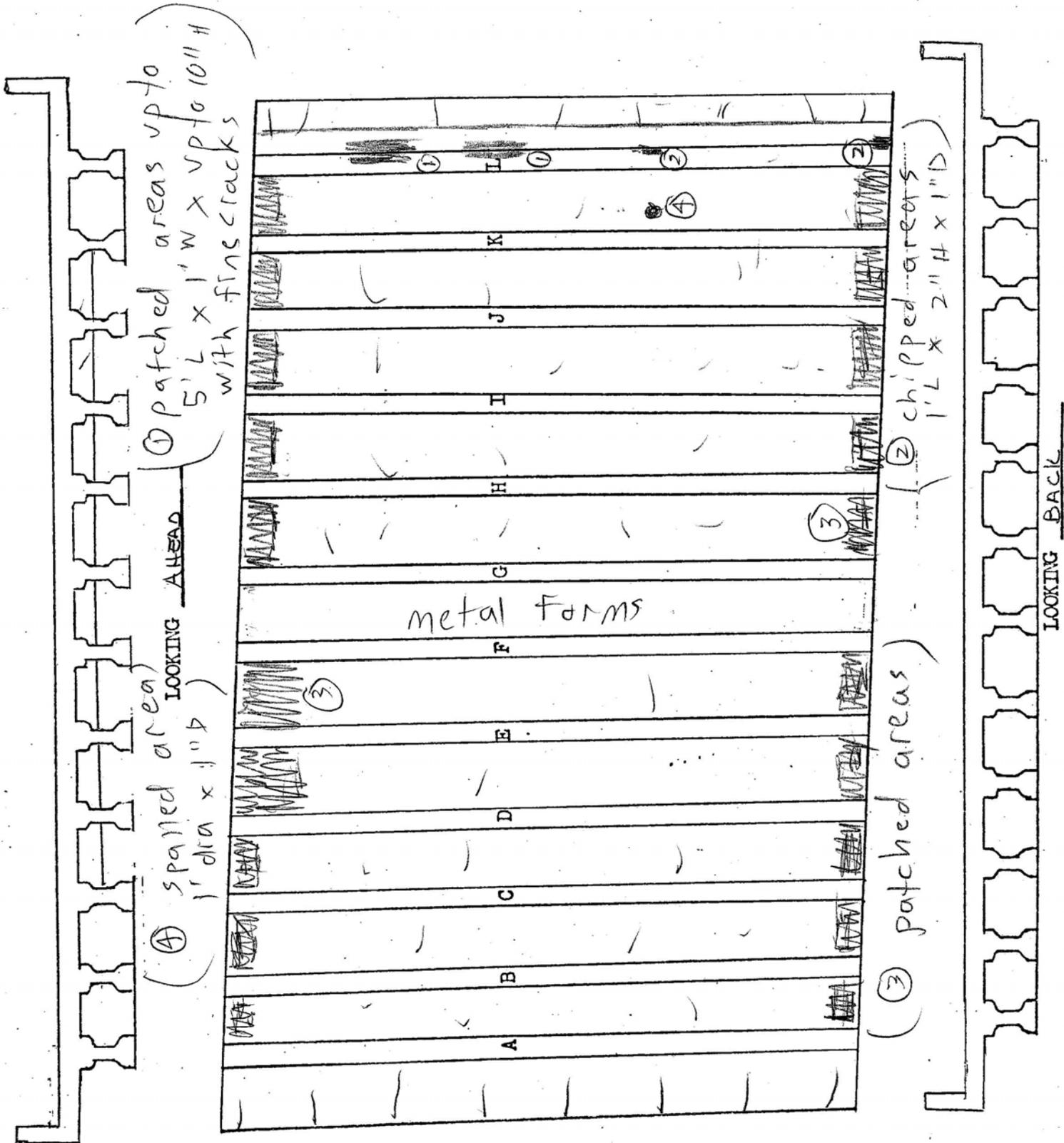
FEB 26 2015

BRIDGE NO. 79 I-240 ~~150~~ 15.43

BENT 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 light 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 Q	G F P C	
<u>L</u>	G F P C	see (1) (2)
	G F P C	
	G F P C	
	G F P C	
E.O.S	G	
BACKFILLS	G F P C	
DIA.	G F P C	hairline cracks

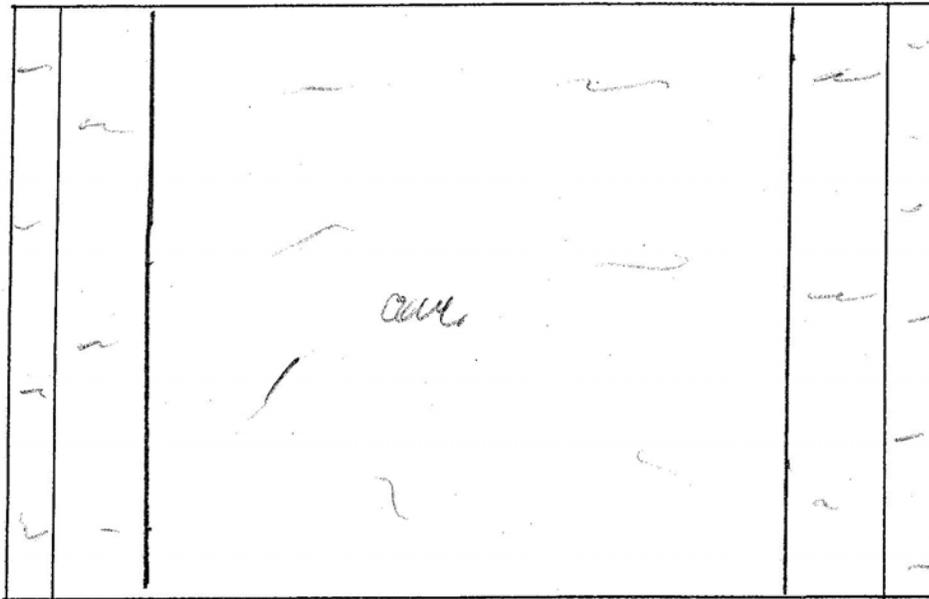
← DIR. OF ROUTE



FEB 26 2015

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

SPAN. NO. 4



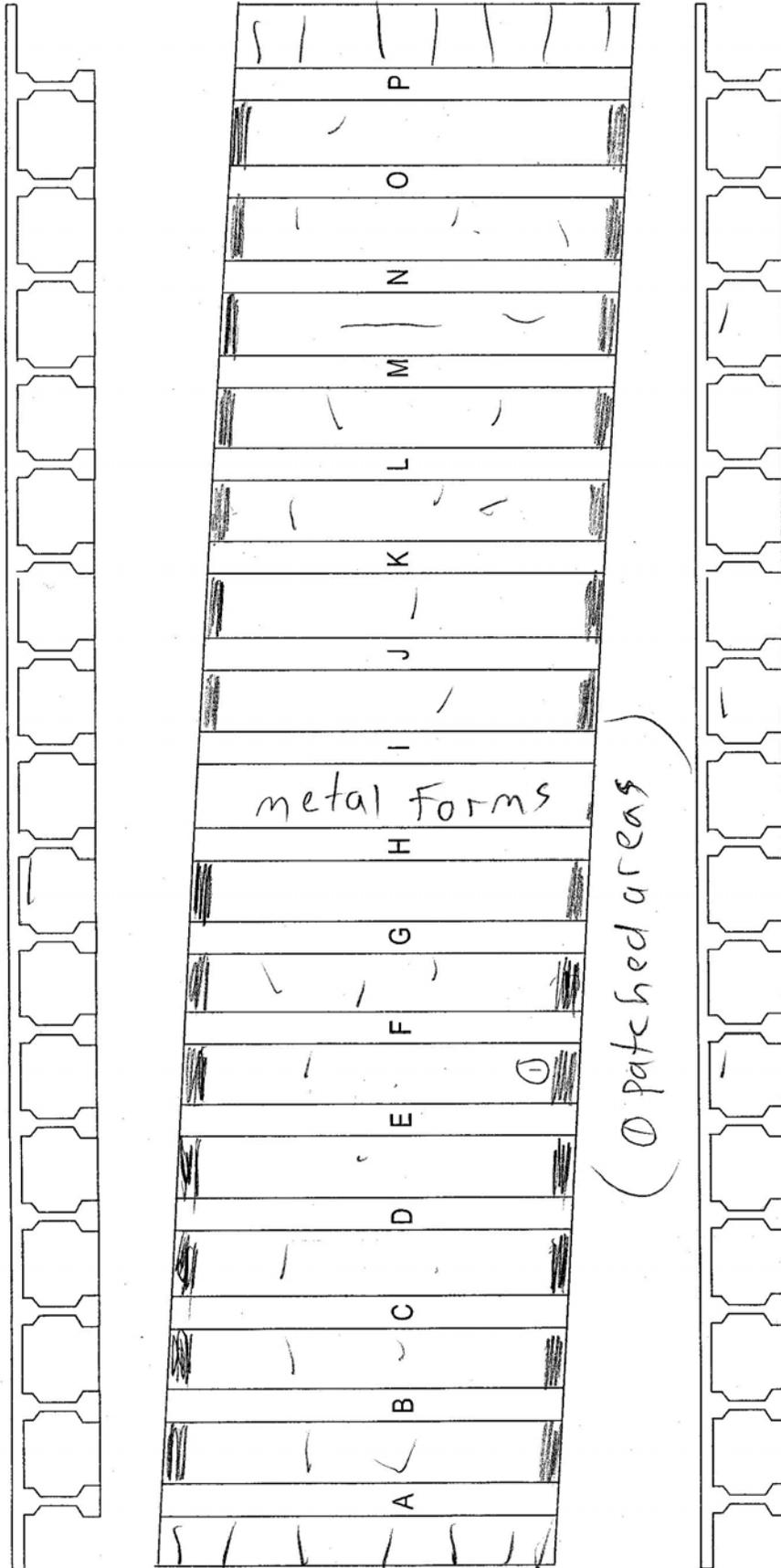
ELEMENT	RATING	COMMENT
TOP DECK	G [Ⓟ] P C	Random Hair Lice to full cracks
PARAPET	G [Ⓟ] P C	Full cracks
RAILS <i>more</i>	G [Ⓟ] F P C	
DRAIN	G F P C	N/A
JOINT	G F P C	N/A
Sidewalk	G [Ⓟ] P C	Full cracks

15.43

Bridge No. 79 - 10240 - ~~1530~~

SKEW 87 LT.

Span No. 4

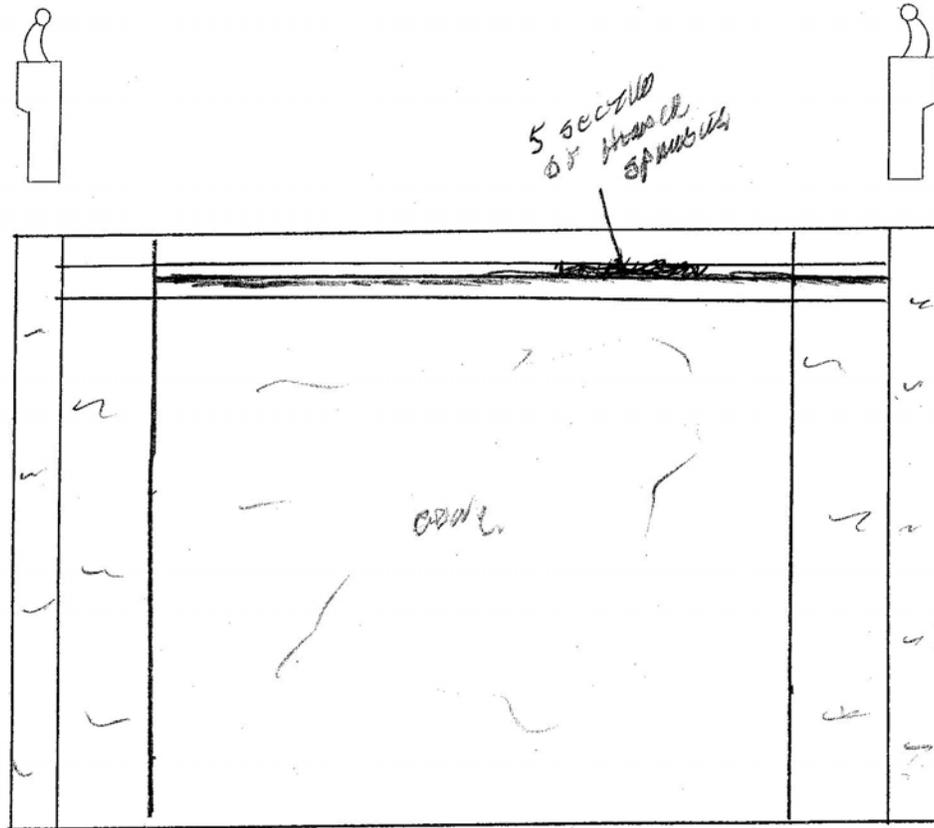


ELEMENT	RATING	COMMENTS
BOTTOM DECK	GⓈP C	see ① a has hairline to fine cracks a light eff.
CONC. I BEAM	GⓈP C	
A --- P	GⓈP C	hairline cracks
E-G's	GⓈP C	
BACKWALES	GⓈP C	
DIA.	GⓈP C	

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 ⊕ P C	Rivets Free concrete
PARAPET	G ⊕ P C	Free concrete
MEAN RAILS	G ⊕ F P C	
DRAIN	G ⊕ F P C	
JOINT	G F ⊕ C	Headed expansion joints with debris
Sidewalk	G ⊕ P C	MAINTENANCE PROBLEMS Free concrete

FEB 26 2015

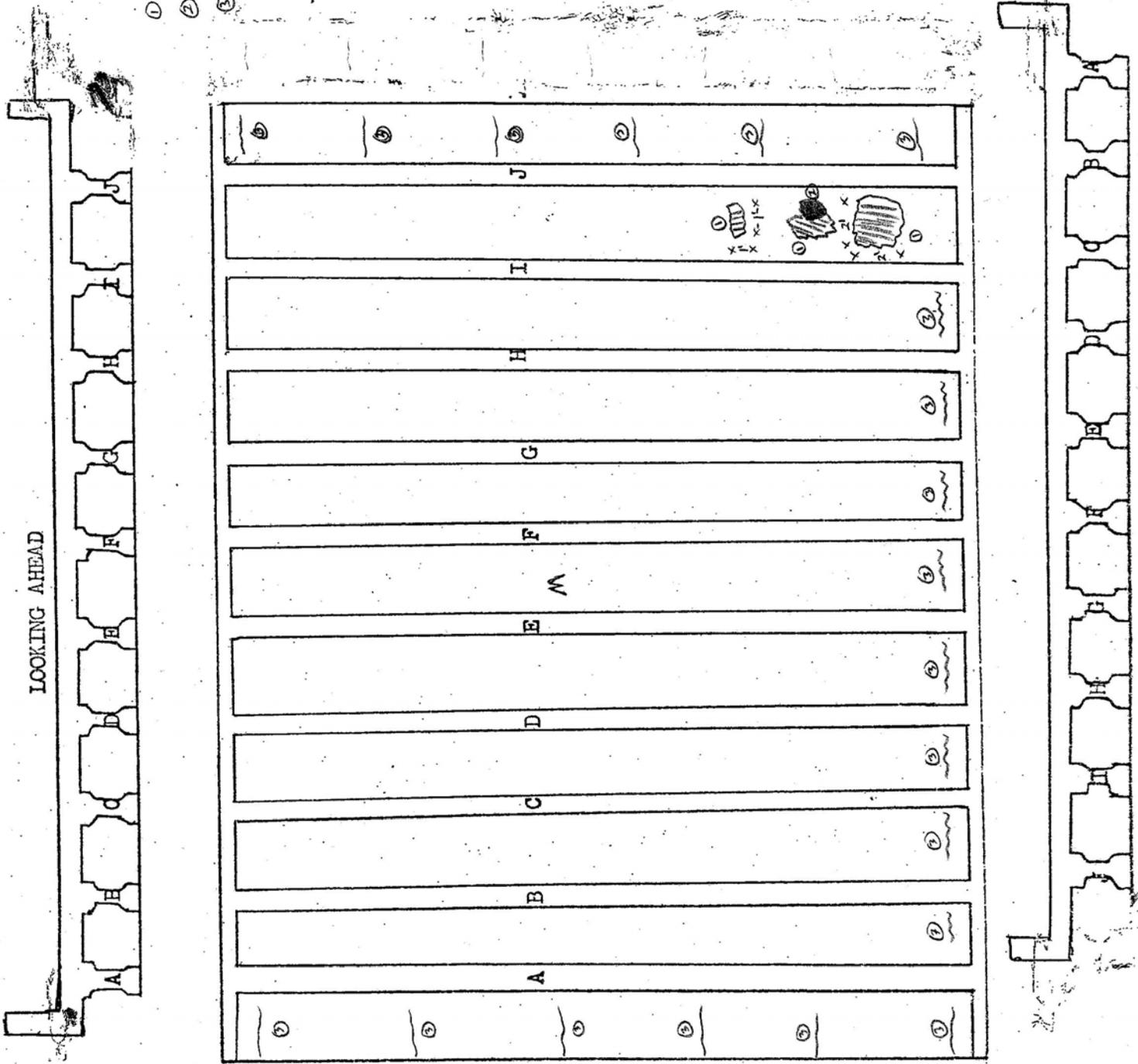
BRIDGE NO. 79 I-240 ~~1580~~ 15.43

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

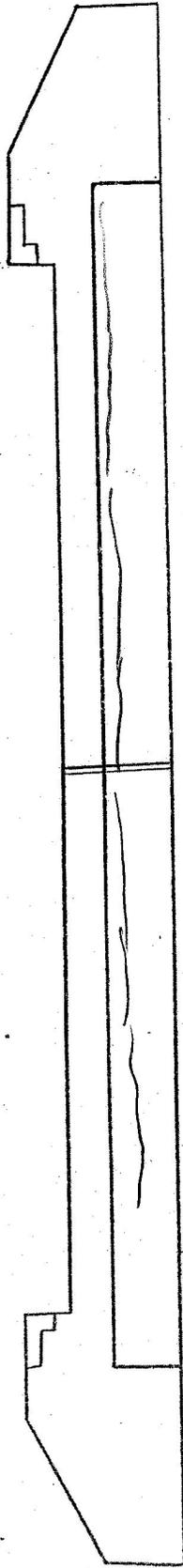
ELEMENT	RATING	COMMENTS
BOTTOM DECK	G ⊕ P C	① delamination up to 2' L x 2' W
		② spalled to steel 2' L x 1' W x 1/2" d
CONC. I. BEAMS		③ hairline - fine cracks w/eff
A B C	⊕ F P C	
	G F P C	
D E F	⊕ F P C	
	G F P C	
G H I	⊕ F P C	
	G F P C	
J K L	⊕ F P C	
	G F P C	
M N O	G F P C	
	G F P C	
	G F P C	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

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

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



DIR. OF ROUTE



LOOKING _____

SLOPE PAVING

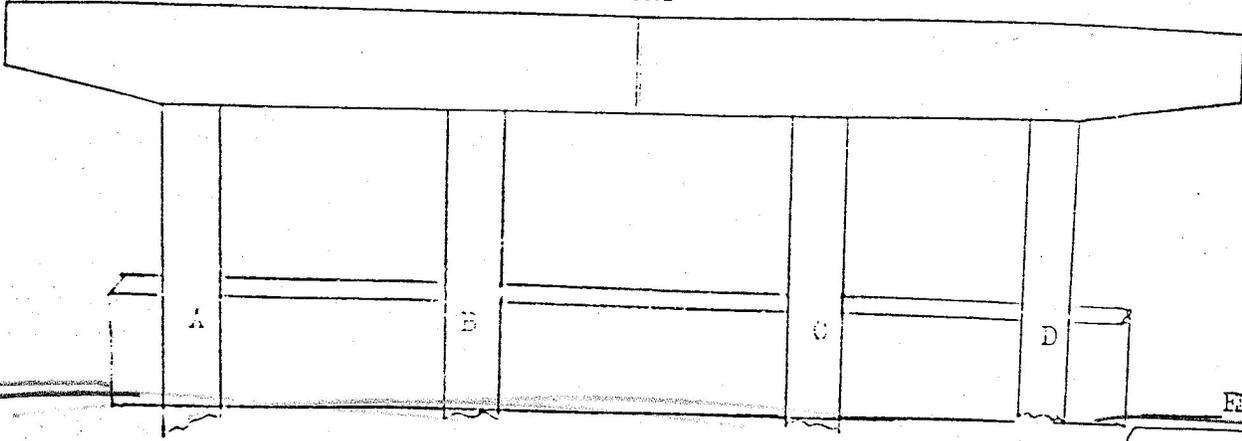
COMMENT

RATING

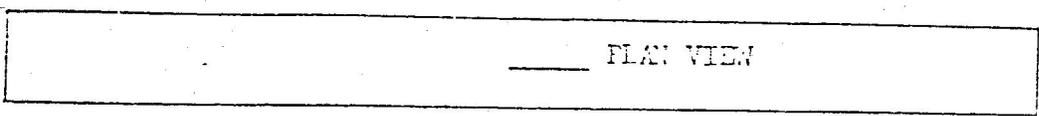
ELEMENT

BEARINGS	G F P C	Light to MED CORR.
CAP	G F P C	HAIRLINE CRACKS
FILLING	G F P C	
EMBANKMENT	G F P C	
SLOPE PAVING RIP RAP	G F P C	
VEG.	G F P C	MED CORRA
E.Q.	G F P C	

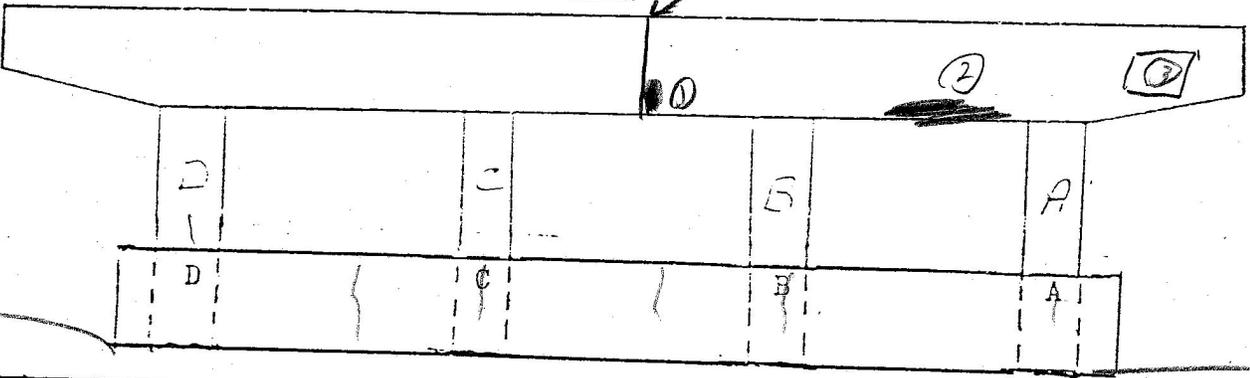
FRONT



END VIEW



REAR CONSTRUCTION JOINT



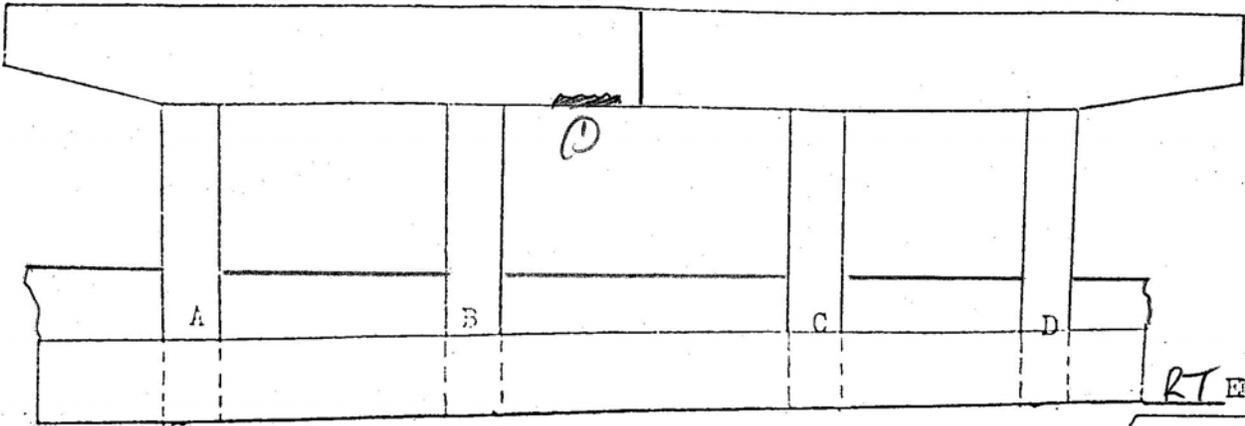
ELEMENT	RATING	COMMENT
BEARINGS	G F P C	n/v
CAP	G (F) P C	① SPALLED TO STEEL 2" H X 8" W X UP TO 3" DEEP ② JUST BEFORE SPALLING 2' W X 6" H X 6" L
COLUMNS A	(G) F P C	HAIRLINE CRACKS
B	(G) F P C	
C	(G) F P C	
D	G (F) P C	
E.Q.	(G) F P C	
CRASH WALL	(F)	HAIRLINE CRACKS
① Light	(F)	

FEB 26 2015

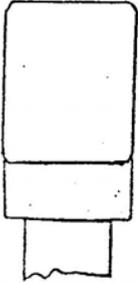
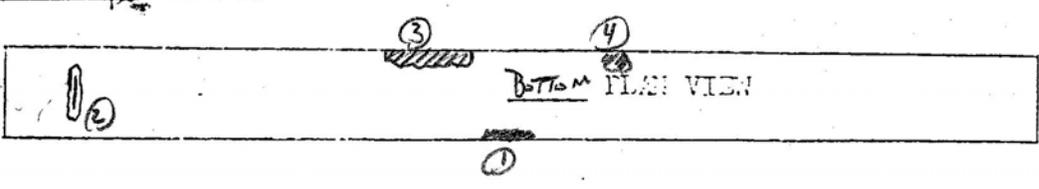
BR. NO. 79 2-210 15.43 SK. 28° BENT NO. 2

RWA

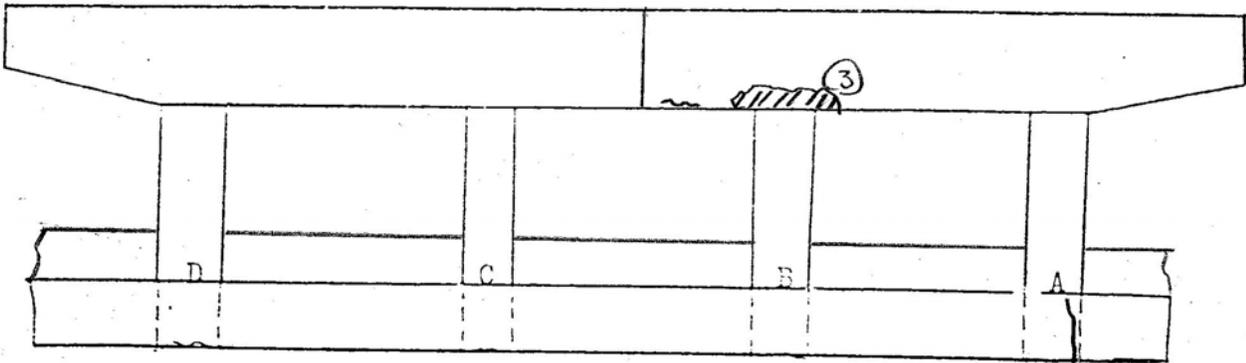
FRONT



RT END 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

CRUSHWALL G F P C

E.Q. G F P C

LIGHT G

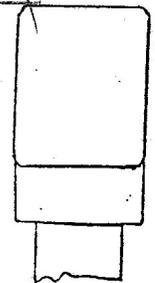
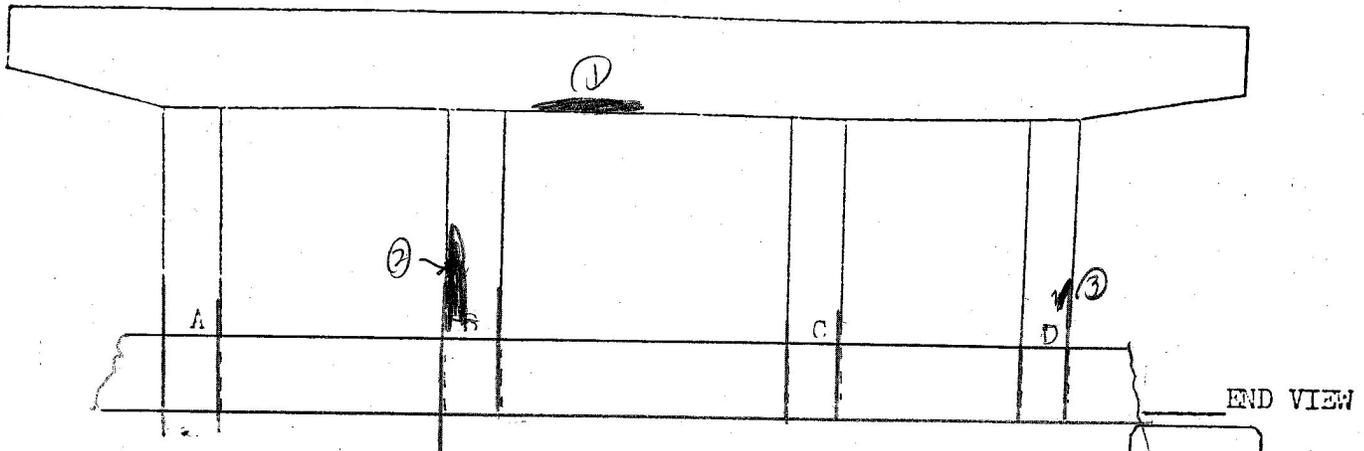
N/V
1/16" CRACK, ①-④

1/16" CRACK

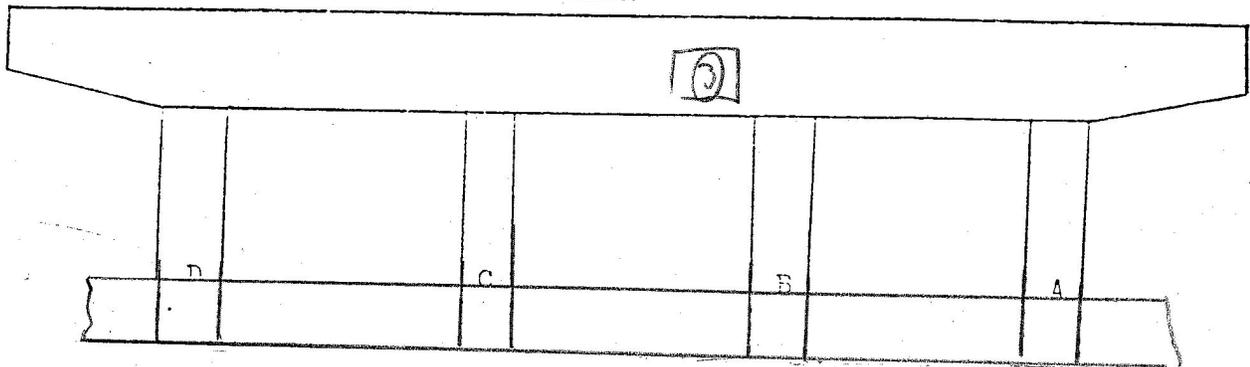
—

- ① JUST BEFORE SPALLING
24" W X 4" H X 3" D
- ② CHIPPED TO STEEL
24" L X 4" W X 1" D
- ③ JUST BEFORE SPALLING
36" W X 8" H X 1"-3" D
- ④ JUST BEFORE SPALLING
8" DIA X 1" D

FRONT



REAR

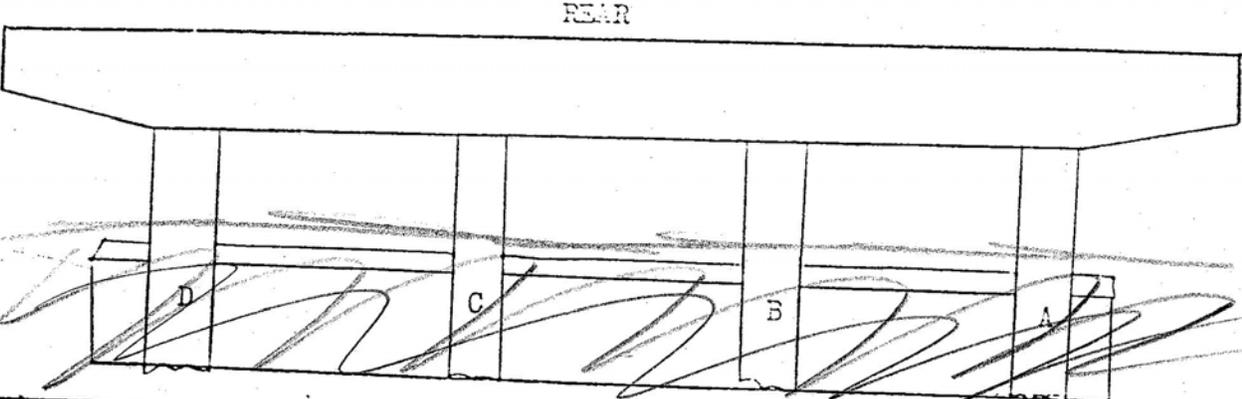
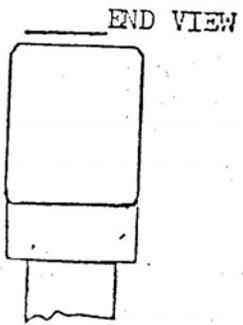
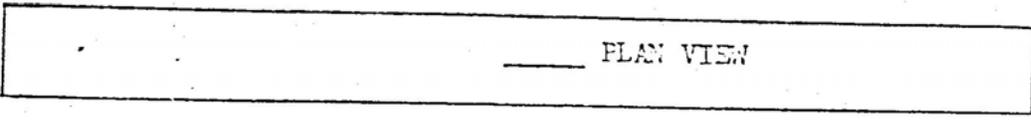
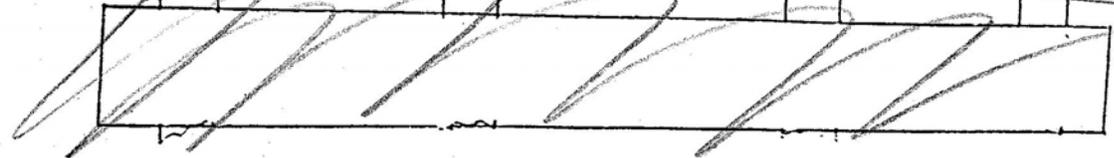
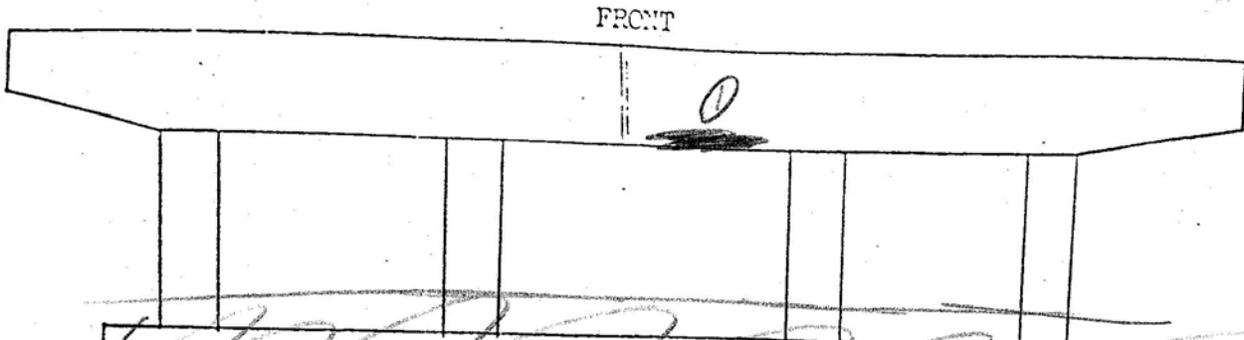


ELEMENT	RATING	COMMENT
BEARINGS	G F P C	N/A
CAP	G (F) P C	① Just BEFORE SPALLING 4'W X 3"H
COLUMNS A	(G) F P C	
B	G (F) P C	② Just BEFORE SPALLING 3'H X 2'W
C	(G) F P C	
D	G F P C	③ SPALLING AREA 2'W X 1'DEEP X 2'H
CRUSH WALL	(G) F P C	
E.Q.	(G) F P C	
③ Light	(G)	

BR. NO. 79 1240 15.43 SK.

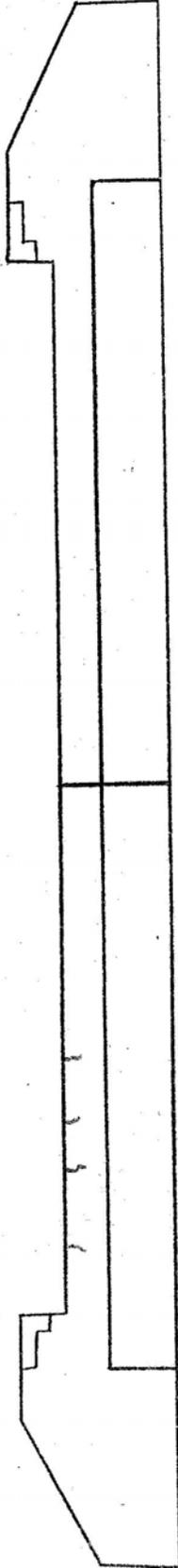
FEB 26 2015

BENT NO. 4



ELEMENT	RATING	COMMENT
BEARINGS	G F P C	MV ① JUST BEFORE SPALLING 5'W X 5" H X 2" L
CAP	G <u>F</u> P C	
COLUMNS A	<u>G</u> F P C	
B	<u>G</u> F P C	
C	<u>G</u> F P C	
D	<u>G</u> F P C	
E. Q.	<u>G</u> F P C	

Kula



LOCKING _____

COMMENT

RATING

ELEMENT

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

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:		SUFFICIENCY RATING:	70.8
H TRUCK RATING @ INV.:	20 TONS		

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

County: 79

Route: I0240

Special Case: 0

County Sequence: 1

Bridge Number: 79I02400107B
(Includes Item 5A)

Feature Intersected: PARK AVE / I-240 RAMP

Log Mile: 15.42

CODE ONLY THOSE VALUES WHICH HAVE CHANGED

ITEM #	DESCRIPTION	VALUE	UNDERPASS SAFETY FEATURES
90	LAST INSPECTION DATE	02/26/2015	
	EARLIEST DATE OF NEXT REGULAR INSPECTION	12/27/2016	
		/ /	
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.	(B) ADEQUACY OF BARRIER OR RAIL 0
		_____ FT. _____ IN.	_____
47	TOTAL HORIZONTAL UNDERCLEARANCE	46 FT. 0 IN.	(C) ADEQUACY OF TRANSITIONS 0
		_____ FT. _____ IN.	_____
54	MINIMUM VERTICAL UNDERCLEARANCE (EXCLUDES SHOULDERS)		(D) ADEQUACY OF TERMINALS 1
	Circle One: H R	_____ FT. _____ IN.	_____
55	MINIMUM LATERAL UNDERCLEARANCE ON RIGHT SIDE		554 VERTICAL CLEARANCE LISTED ON HEIGHT POSTING
	Circle One: H R	_____ FT. _____ IN.	_____ FT. _____ IN.
		_____ FT. _____ IN.	_____ FT. _____ IN.
56	MINIMUM LATERAL UNDERCLEARANCE ON LEFT SIDE	_____ FT. _____ IN.	16 LATITUDE 17 LONGITUDE
		_____ FT. _____ IN.	N 35° 5.9800' W 89° 52.1650'
		_____ FT. _____ IN.	_____
521	OVERALL CONDITION	FAIR	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-I0240-15.42-
CO. SEQ.: 1 SPEC. CASE: 0
MILEPOST: 15.72

CROSSING: PARK AVE / I-240 RAMP
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:	
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:		SUFFICIENCY RATING:	
H TRUCK RATING @ INV.:	TONS		

SUGGESTED ROUTINE MAINTENANCE AND COMMENTS
SEE BRIDGE NO. 79-I0240-15.43 (79I02400107A) 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. _____
Eleven Digit No.

Underpass Location No. _____
Co. Route Log Mile

_____ or _____ 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 (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 Substructure 0.5 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	()	()	(+)
Approach Guardrail Terminal	G F P C	()	()	(+)

SIGNING FOR UNDERPASS ROUTE

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

NONE

INSPECTORS

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

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 _____

_____ or _____ over/
Railroad/Walkway Co. _____ Route _____ Log Mile 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 (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

1. MOORE
2. LEECH
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. _____
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)

③

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

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

		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 (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)
(Rev. 9-22-98)
DT-1443

Date _____

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

Other Signs or Plaques: NONE

Comments 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

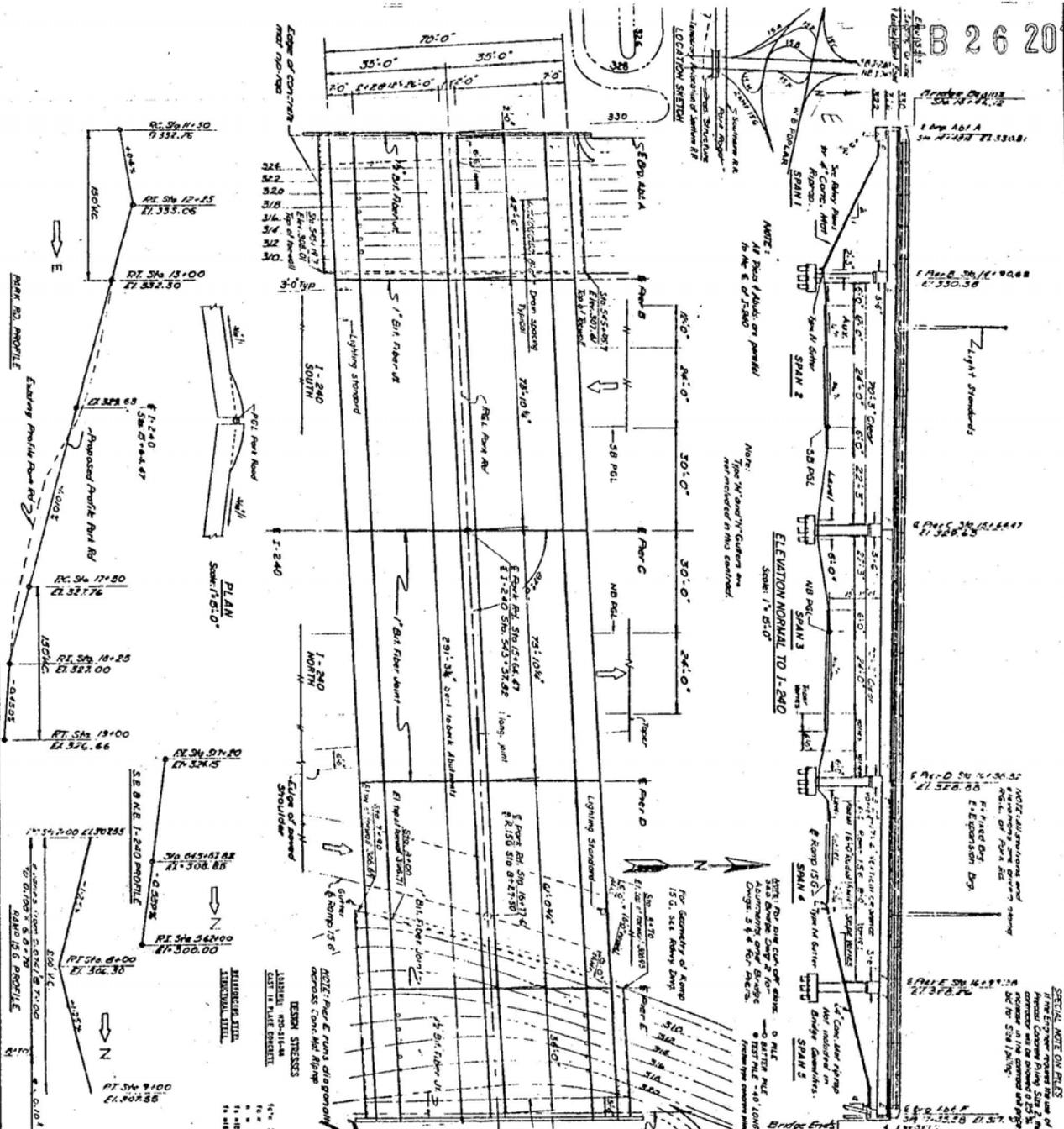
Does Potential Exist for Elements from Bridge Falling on Roadway Beneath YES () NO ()
Does Potential Exist Because of Deteriorated Condition or Failure of Major Member YES () NO ()

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



LIST OF DRAWINGS

DWG. NO.	DESCRIPTION
1	BRIDGE LAYOUT
2	ABUTMENTS AND PIERS
3	PIERS
4	SUPERSTRUCTURE SLAB
5	PRESSTRESSED BEAM - SPANS 1, 4 & 5
6	PRESSTRESSED BEAM - SPANS 2 & 3
7	BEAMS & MISCELLANEOUS DETAILS
8	LOADING & HANDRAIL DETAILS
9	STD. 3" RAIL HANDRAIL (STD. 6'-0" TO 8'-0")
10	STD. 3" RAIL HANDRAIL (STD. 8'-0" TO 10'-0")

NOTE ON TEST PILES

TEST PILES SHALL BE ORDERED FROM THE FIELD LOCATION. THE TEST PILE SHALL BE ORDERED FROM THE FIELD LOCATION. THE TEST PILE SHALL BE ORDERED FROM THE FIELD LOCATION. THE TEST PILE SHALL BE ORDERED FROM THE FIELD LOCATION.

SUMMARY OF QUANTITIES

ITEM	UNIT	QUANTITY	UNIT PRICE	TOTAL
1	CONCRETE	10,000	100.00	1,000,000
2	STEEL	500	200.00	100,000
3	WOOD	100	100.00	10,000
4	PAINT	100	100.00	10,000
5	LABOR	1000	100.00	100,000
6	EQUIPMENT	100	100.00	10,000
7	PERMITS	1	1000.00	1,000.00
8	CONSTRUCTION	100	100.00	10,000
9	FOUNDATION	100	100.00	10,000
10	FINISHING	100	100.00	10,000

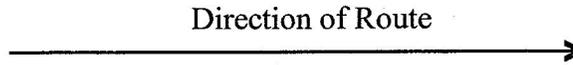
DETAIL NOTES

1. ALL CONCRETE SHALL BE ORDERED FROM THE FIELD LOCATION.
2. ALL STEEL SHALL BE ORDERED FROM THE FIELD LOCATION.
3. ALL WOOD SHALL BE ORDERED FROM THE FIELD LOCATION.
4. ALL PAINT SHALL BE ORDERED FROM THE FIELD LOCATION.
5. ALL LABOR SHALL BE ORDERED FROM THE FIELD LOCATION.
6. ALL EQUIPMENT SHALL BE ORDERED FROM THE FIELD LOCATION.
7. ALL PERMITS SHALL BE ORDERED FROM THE FIELD LOCATION.
8. ALL CONSTRUCTION SHALL BE ORDERED FROM THE FIELD LOCATION.
9. ALL FOUNDATION SHALL BE ORDERED FROM THE FIELD LOCATION.
10. ALL FINISHING SHALL BE ORDERED FROM THE FIELD LOCATION.

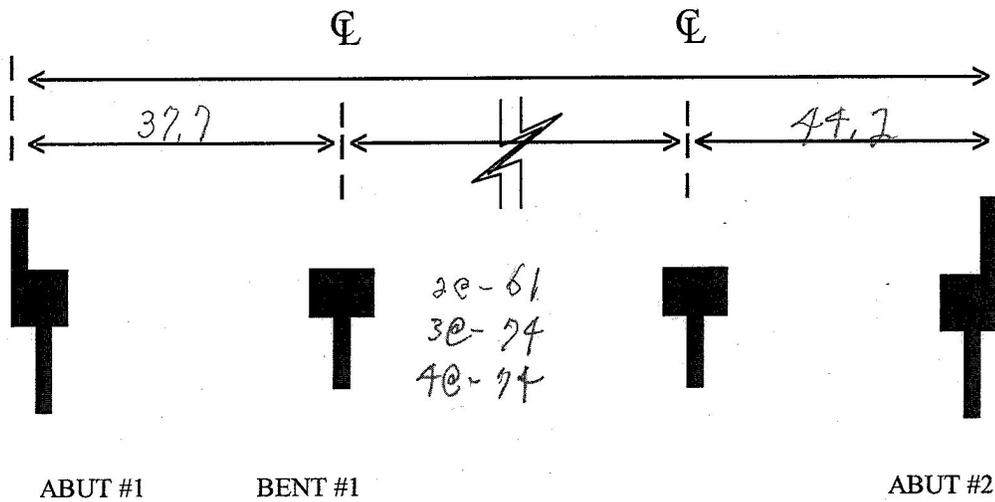
BRIDGE 1 OF 10
 108 NO. 332
 79-I-240-15287
 15.43
 PARK RD

FEB 26 2015

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



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



SIDE OF BRIDGE