



NC DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
BRIDGE MANAGEMENT UNIT

ATTENTION

BRIDGE CLOSED. CLEARANCES CHECKED, DATA
CHANGED

BRIDGE INSPECTION REPORT

INSPECTION TYPE: Routine Inspection

COUNTY BUNCOMBE BRIDGE NUMBER 100257 INSPECTION CYCLE 2 YRS
ROUTE PED.WLKWY.(CLOSED) ACROSS I-26,I-240 M.P. 1.70

LOCATION .4 MI.W.JCT.SR3548

SUPERSTRUCTURE

SUBSTRUCTURE

SPANS 1@39',1 @ 55',1@ 60',1 @ 49'

LONGITUDE 82° 35' 5.59"

LATITUDE 35° 34' 16.98"

INSPECTION DATE 10/31/2016

PRESENT CONDITION CLEARANCE ONLY

PRESENT POSTING N **NOT POSTED** PROPOSED POSTING

OTHER SIGNS PRESENT BRIDGE CLOSED (2), NO TRESSPASSING (2)



LOOKING NORTH (BRIDGE CLOSED, REBAR WELDED ACROSS APPROACH TO

Fracture Critical	<u>No</u>
Temporary Shoring	<u>No</u>
Scour Critical	<u>No</u>
Scour POA	<u>No</u>

SIGN NOTICE
ISSUED FOR

NUMBERED
REQUIRED

<u>No</u>	WEIGHT LIMIT	
<u>No</u>	DELINEATORS	
<u>No</u>	NARROW BRIDGE	
<u>No</u>	ONE LANE BRIDGE	
<u>No</u>	LOW CLEARANCE	

NATIONAL BRIDGE INVENTORY----- STRUCTURE INVENTORY AND APPRAISAL

Run Date: 12/02/2016

IDENTIFICATION					
(1) STATE NAME -NORTH CAROLINA	BRIDGE	100257	SUFFICIENCY RATING =	0	
(8) STRUCTURE NUMBER(FEDERAL)	00000000210257		STATUS =	Functionally Obsolete	
(5) INVENTORY ROUTE (ON/UNDER) - ON	11002400				
(2) STATE HIGHWAY DEPARTMENT DISTRICT	2		CLASSIFICATION		CODE
(3) COUNTY CODE 21 (4) PLACE CODE	0		(112)NBIS BRIDGE SYSTEM -	NO	
(6) FEATURE INTERSECTED - I-26,I-240			(104)HIGHWAY SYSTEM Is on the NHS	1	
(7) FACILITY CARRIED PED.WLKWY.(CLOSED)			(26) FUNCTIONAL CLASS - Arterial - Interstate	11	
(9) LOCATION .4 MI.W.JCT.SR3548			(100)STRAHNET HIGHWAY - Interstate STRAHNET Route	1	
(11)MILEPOINT	1.7		(101)PARALLEL STRUCTURE - No Parallel Structure	N	
(16)LAT 35° 34' 16.98" (17)LONG 82° 35' 5.59"			(102)DIRECTION OF TRAFFIC - 2-way Traffic	2	
(98)BORDER BRIDGE STATE CODE	PCT SHARE		(103)TEMPORARY STRUCTURE -		
(99)BORDER BRIDGE STRUCTURE NO			(110)DESIGNATED NATIONAL NETWORK - On the National Network	1	
			(20) TOLL On Free Road	3	
STRUCTURE TYPE AND MATERIAL			(31) MAINTAIN - State Highway Agency	01	
(43) STRUCTURE TYPE MAIN: Concrete			(22) OWNER - State Highway Agency	01	
TYPE - Tee Beam	CODE 104		(37) HISTORICAL SIGNIFICANCE - Not Eligible	5	
(44) STRUCTURE TYPE APPR : Concrete			CONDITION		CODE
TYPE - Girder or Floorbeam System	CODE 103		(58) DECK	7	
(45) NUMBER OF SPANS IN MAIN UNIT	2		(59) SUPERSTRUCTURE	7	
(46) NUMBER OF APPROACH SPANS	2		(60) SUBSTRUCTURE	7	
(107)DECK STRUCTURE TYPE - N	CODE		(61) CHANNEL & CHANNEL PROTECTION	N	
(108)WEARING SURFACE / PROTECTIVE SYSTEM :			(62) CULVERTS	N	
(A) TYPE OF WEARING SURFACE -	CODE		LOAD RATING AND POSTING		CODE
(B) TYPE OF MEMBRANE -	CODE		(31) DESIGN LOAD Other	C	
(C) TYPE OF DECK PROTECTION -	CODE		(63) OPERATING RATING METHOD - No Rating Analysis or Evaluatic	5	
			(64) OPERATING RATING - HS-	0	
(27) YEAR BUILT	1967		(65) INVENTORY RATING METHOD - No Rating Analysis or Evaluatic	5	
(106)YEAR RECONSTRUCTED			(66) INVENTORY RATING - HS-	0	
(42) TYPE OF SERVICE : ON - Pedestrian			(70) BRIDGE POSTING -		
UNDER - Highway	CODE 31		(41) STRUCTURE OPEN, POSTED ,OR CLOSED	K	
(28) LANES: ON STRUCTURE 0 UNDER STRUCTURE	2		DESCRIPTION - Bridge Closed		
(29) AVERAGE DAILY TRAFFIC	58000		APPRAISAL		CODE
(30) YEAR OF ADT 2013 (109) TRUCK ADT PCT	16%		(67) STRUCTURAL EVALUATION	7	
(19) BYPASS OR DETOUR LENGTH	1 MI		(68) DECK GEOMETRY	2	
GEOMETRIC DATA			(69) UNDERCLEARANCES,VERTI & HORIZ	6	
(48) LENGTH OF MAXIMUM SPAN	58 FT		(71) WATERWAY ADEQUACY	N	
(49) STRUCTURE LENGTH	203 FT		(72) APPROACH ROADWAY ALIGNMENT	0	
(50)CURB OR SIDEWALK: LEFT 0 FT RIGHT	0 FT		(36) TRAFFIC SAFETY FEATURES	NNNN	
(51) BRIDGE ROADWAY WIDTH CURB TO CURB	0 FT		(113)SCOUR CRITICAL BRIDGES	N	
(52) DECK WIDTH OUT TO OUT	0 FT		PROPOSED IMPROVEMENTS		
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)	0 FT		(75) TYPE OF WORK -	CODE	
(33) BRIDGE MEDIAN - No Median	CODE 0		(76) LENGTH OF STRUCTURE IMPROVEMENT		
(34) SKEW 0° (35) STRUCTURE FLARED	0		(94) BRIDGE IMPROVEMENT COST		
(10) INVENTORY ROUTE MIN VERT CLEAR	25.61 FT		(95) ROADWAY IMPROVEMENT COST		
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR	36 FT		(96) TOTAL PROJECT COST		
(53) MIN VERT CLEAR OVER BRIDGE RDWY	999.9 FT		(97) YEAR OF IMPROVEMENT COST ESTIMATE		
(54) MIN VERT UNDERCLEAR REF Highway	24.75 FT		(114)FUTURE ADT 116000 (115) YEAR FUTURE ADT 2025		
(55) MIN LAT UNDERCLEAR RT REF Highway	15.16 FT		INSPECTIONS		
(56) MIN LAT UNDERCLEAR LT REF -	12.2 FT		(90) INSPECTION DATE	10/31/2016	
NAVIGATION DATA			(92) CRITICAL FEATURE INSPECTION :	(93) CFI DATE	
(38) NAVIGATION CONTROL - Not Applicable	CODE N		A) FRACTURE CRIT DETAIL - NO	A)	
(111)PIER PROTECTION -	CODE		B) UNDERWATER INSP - NO	B)	
(39) NAVIGATION VERTICAL CLEARANCE	0		C) OTHER SPECIAL INSP NO	C)	
(116)VERT - LIFT BRIDGE NAV MIN VERT CLEAR	FT		SCOUR		
(40) NAVIGATION HORIZONTAL CLEARANCE	0 FT				

Structure No: 100257

County: BUNCOMBE

Run Date:

Span Number	Feature Intersected	Inventory Route	Minimum Maximum Vertical Clearance	Milepoint	Base Highway Network	LRS Inventory Route	Toll	Functional Classification	Nuner of Lanes	Average Daily Traffic	Year of Average Daily Traffic	Total Horizontal Clearance	See Note 1					STRAHNET Highway Designator	Direction of Traffic	Highway System of Route
													Reference Feature	Minimum Vertical Underclearance	Right Lateral Underclearance	Left Lateral Underclearance	Underclearance Appraisal Grade			
	6	5	10	11	12	13	20	26	28	29	30	47	54A	54	55	56	69	100	102	104
2	I26W,I240W	11000260	25.5	1.41	1	10026		11	1	29000	2013	35.89	H	25.42	20.14	10.59	9	0	1	1
3	I26E,I240E	11000260	25	1.41	1	10026		11	1	29000	2013	37.13	H	24.75	15.16	12.2	9	0	1	1

Note 1: Items 54, 55, and 56 are not reported FHWA under route data points but are collected for each under route to determine the minimum value for Underclearance Appraisal Item 69. The under route that generates the lowest Underclearance Appraisal value will be reported on the Facility Carried record.

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE

Run Date: 12/02/2016

COUNTY : BUNCOMBE DIVISION : 13 DISTRICT : 2 STRUCTURE NUMBER : 100257 LENGTH : 203 FEET

ROUTE CARRIED : PED.WLKWY.(CLOSED) FEATURE INTERSECTED : I-26,I-240

LOCATED : .4 MI.W.JCT.SR3548 BRIDGE NAME : CITY :

FUNC. CLASS : 11 SYST.ON : FA SYST.UNDER : NFA ADT & YR : 58000 2013 RAIL TYPE : LT 991 RT 991

BUILT : 1967 BY : SHC PROJ : 8.3191101 FED.AID PROJ : APD-34- DESIGN LOAD : Other

REHAB : BY : PROJ : ALIGNMENT : TAN SKEW : 90 LANES : ON 0 UNDER 2

NAVIGATION : VC 0 FT HC 0 FT HT. CRN. TO BED : 0 FT WATER DEPTH : 0 FT

SUPERSTRUCTURE : RC FLOOR ON THRU GDR. & DECK GIRDERS

SUBSTRUCTURE : RC ABUTS;RC HAMMERHEAD PIERS

SPANS : 1@39',1 @ 55',1@ 60',1 @ 49'

BEAMS OR GIRDERS : SPANS 1&4:THRU GIRDERS;SPANS 2&3:2 LNS.RCDG

FLOOR : 5.5 RC/NO AWS ENCROACHMENT : DECK (OUT TO OUT) : 0 FT

CLEAR ROADWAY : BETWEEN RAILS : SIDEWALK OR CURB : LT 0 FT RT 0 FT

VERT.CL.OVER : 999.9 FT

INV.RTG. : HS- OPE.RTG. : HS- CONTR.MEMBER : POSTED : SV TTST DATE 05/24/2000

SYSTEM : Primary Interstate GREEN LINE ROUTE : U

UNDER ROUTES AND CLEARANCES

Span	Route Description	Vertical Clearances		Horizontal Clearances		
		MMVC	MVC	Total	Left	Right
2	I26W,I240W	25.50	25.42	35.89	10.59	20.14
3	I26E,I240E	25	24.75	37.13	12.20	15.16

Note: All measurements are in feet.

REMARKS :

BRIDGE INSPECTION RECORD AND SUMMARY

INSPECTION TYPE Routine Inspection
 BRIDGE NO. 100257 COUNTY BUNCOMBE ROUTE PED.WLKWY.(CLOSED) OVER I-26,I-240
 STRUCTURE TYPE
 ROUTE ORIENTATION SPANS 1@39',1 @ 55',1@ 60',1 @ 49'

EVALUATION CODES: CRITICAL (C, 0 - 3); POOR (P, 4); FAIR (F, 5, 6); GOOD (G, 7 - 9)

INSPECTION ITEM			ITEM 61		
DECK ITEMS		GRADES			
1. WEARING SURFACE			45. CHANNEL & CHANNEL PROT.	a. WATERWAY	
				b. ALIGNMENT	
				c. SCOUR	
				d. SLOPE PROT., RIP-RAP, DIKES, ETC.	
2. DECK NO. OF EA TYPE SPN GRADE RATES SI & A ITEM 58	a. CONCRETE		50. APPROACH ROADWAY CONDITION		
	b. TIMBER		51. APPROACH SLABS		
	c. STEEL PLANK		52. PAINT SYSTEM CODE		
	d. OPEN GRID		53. UTILITIES		
3. RAILING	a. CONCRETE		54. RESPONSE TO LIVE LOAD		
	b. TIMBER		55. ESTIMATED REMAINING LIFE		
	c. ALUMINUM				
	d. STEEL				
4. CURBS, WHEELGUARDS, PARAPETS, MEDIANS					
5. WALKWAYS (ON OR ATTACHED TO STRUCTURE)			60. REGULATORY SIGN NOTICE ISSUED		
6. DECK EXP JTS. OR DEVICES. NO. OF EACH	a. STEEL PL OR FINGER		61. PROMPT-ACTION NOTICE ISSUED		
	b. MISC PREFAB		62. PRESENTLY POSTED		
	c. COMPRESSION SEAL		63. TOT. FIELD INSP TIME (INCLUDE WRITE UP)(MAN HR) 2		
	d. STANDARD JOINTS		64. TOTAL SNOOPER INSP. TIME (HRS)		
	e. OPEN JOINTS		65. TOTAL TRAFFIC CONTROL TIME (MAN HRS)		
7. DECK DEBRIS (INCLUDES EXCESS SAND/GRAVEL)					
			70. SI&A GENERAL CONDITION RATINGS		
SUPER STR. (FM. 1 (90)B TRUSS) ITEM 59			a. DECK	ITEM 58	
10. LONGITUDINAL BEAMS OR GIRDERS			b. SUPERSTRUCTURE	ITEM 59	
11. LONGITUDINAL JOIST OR STRINGERS			c. SUBSTRUCTURE	ITEM 60	
12. INT. DIAP'S, X-FRAMES, BRACING & CONN'S			d. CHANNEL & CHANNEL PROT.	ITEM 61	
13. END DIAP'S, CURTAIN WALLS, & CONN'S					
14. FLOOR BEAMS AND CONNECTIONS			71. SI&A FIELD APPRAISAL RATINGS		
15. BEARING ASSEMBLIES (INCLUDING MISALIGN)			a. WATERWAY ADAQUACY		
16. DRAINAGE SYSTEM (ON STRUCTURE)			b. APPR. RDWY. ALIGNMENT		
17. MOVABLE SPAN MACHINERY					
			72. FIELD SCOUR EVALUATION		
SUB STR. ITEMS. ITEM 60 (INCLUDE SCOUR)					
35. TIM SUB STR.	a. ABUT. & INT. BENT CAPS & RISERS		USE OF INSP. ACCESSIBILITY EQUIPMENT		
	b. PILES, POST, SILLS, & BRACING		SNOOPER (CODE S, 4, OR N)	HRS	
	c. BULKHEADS, WING'S, & TIE BACKS		LADDER		
36. CONC SUB STR.	a. ABUT. & INT. BENT CAPS		BUCKET TRUCK		
	b. ABUT. & BENT COL'S BREASTWALLS		BOAT		
	c. ABUT. & INT. BENT PILES		OTHER		
	d. BACKWALLS, WING'S, RETAIN. WALLS				
	e. ABUT. & BENT FOOTINGS & SILLS				
37. STEEL SUB STR.	a. ABUT. & INT. BENT CAPS & RISERS		SPECIAL INSPECTION REQUESTED FOR		
	b. PILES, BRACING, AND BULKHEADS				
38. FOUNDATION PILES TYPE MATERIAL			NOTE		
39. SLOPE PROT., RIP-RAP (INCLUDE DRAINAGE)					
40. FENDER SYSTEMS			80. INSPECTED BY:	Joseph H. [Signature]	
41. DRIFT			81. REVIEWED BY:		

Bridge I&A Form 1(82)H State of North Carolina Dept. of Transportation Division of Highways		FIELD INSPECTION REPORT <u>Bridge Inspeccion & Analysis</u>	
Team Leader JOSEPH HUNTSINGER			
Assisted By DJA			
Item No.	Grade		
63	2	CLEARANCE ONLY	

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge: 100257

County BUNCOMBE

Date: 10/31/2016

These Repairs Should Be Made Within Twelve Months From Date Of This Inspection

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
0	No Maintenance Required	NA	0	CLEARANCE ONLY INSPECTION	

Key



Priority Maintenance Item



Critical Finding Item



Priority Maintenance Level Not Determined

Structure Data Worksheet

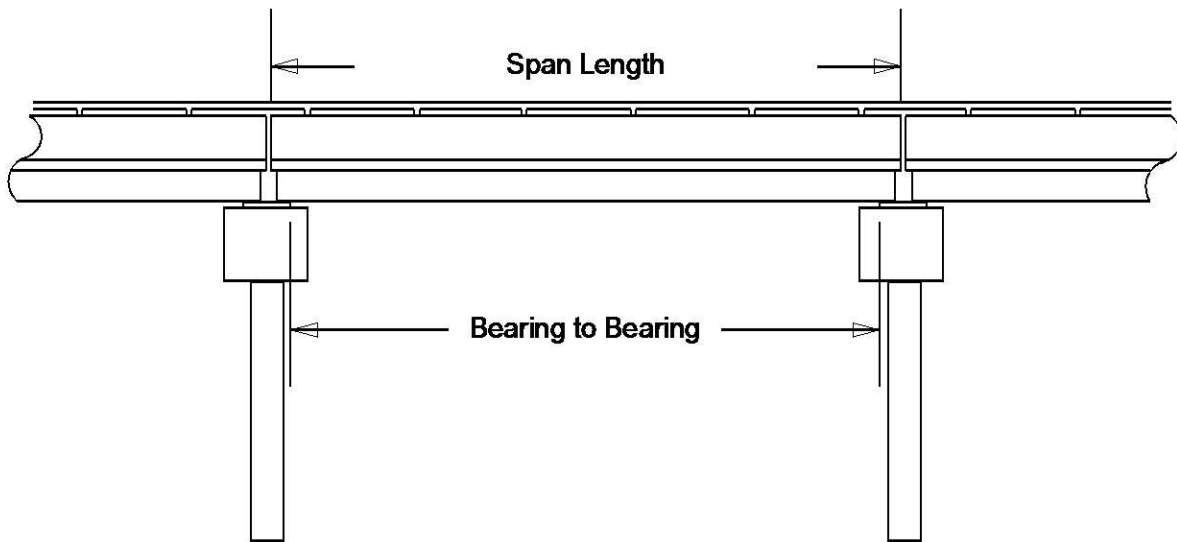
Spans

County: BUNCOMBE

Structure No: 100257

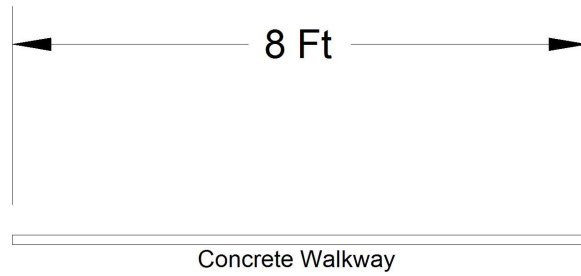
Date: 10/31/2016

Inspected By: JCH



Span No	Span Length	Bearing to Bearing	Comments
1	39'- 0"	35' 0"	
2	55'- 0"	53' 0"	
3	60'- 0"	58' 0"	
4	49'- 0"	45' 0"	NBIS=197' 0"

Bridge Inspection Field Sketch



Roadway	8ft Wide	2 Paved Lanes	Looking North
Left Guardrail			
Right Guardrail			

10/31/16 - J.C.HUNTSINGER

Title

Approach Roadway

Description

Data Worksheet

Bridge No: 100257

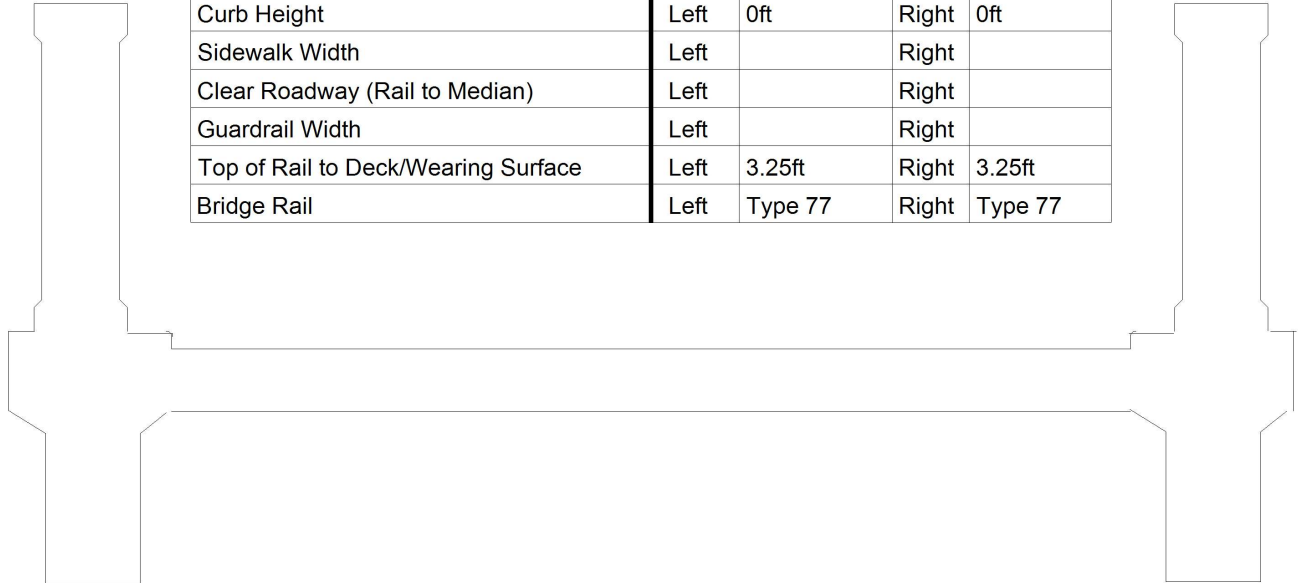
Drawn By: Roy W. Shook

Date: 11/20/2008

File Name: S0102000718

Bridge Inspection Field Sketch

Deck Width/Out to Out	9.041ft	Between Rails			7.041ft
Clear Roadway	7.041ft	Wearing Surface			0ft
Median Width		Median Height			
Curb Height		Left	0ft	Right	0ft
Sidewalk Width		Left		Right	
Clear Roadway (Rail to Median)		Left		Right	
Guardrail Width		Left		Right	
Top of Rail to Deck/Wearing Surface		Left	3.25ft	Right	3.25ft
Bridge Rail		Left	Type 77	Right	Type 77



Measurements for Span #	2		
Deck Thickness	0.458	Left Overhang	0.125
Top of Rail to Bottom of Beam	5.000	Right Overhang	0.125

Beam No	Beam Type	Spacing
1 thru 2	RC Deck Girder	8.000 ft. (+/-)

10/31/16 - J.C.HUNTSINGER

Title

Typical Section

Description

Data Worksheet

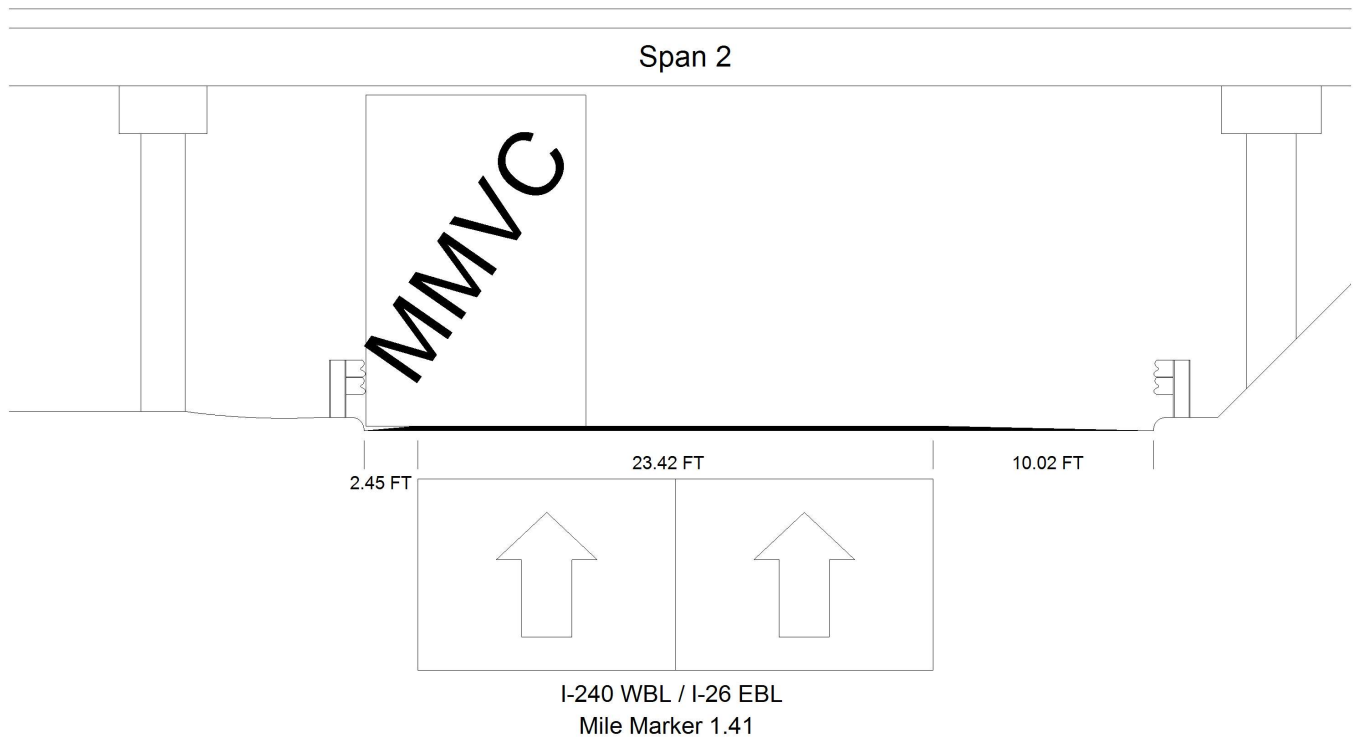
Bridge No: 100257

Drawn By: Roy W. Shook

Date: 11/20/2008

File Name: S0102000719

Bridge Inspection Field Sketch



Roadway 1		Direction of Traffic	West
Distance to Left Rail	2.45FT	Distance to Right Rail	10.02FT
Distance to Left Toe of Slope		Distance to Left Bent	10.59FT
Distance to Right Toe of Slope	11.4FT	Distance to Right Bent	20.14FT
MMVC	25.5 Ft at Beam 1, 10 FT from FACE OF LEFT RAIL		
MVC	25.42 Ft at Beam 1, 0 FT from RIGHT EDGE OF THRU LANES		

CLEARANCES REDUCED 1" DUE TO NEW WEARING SURFACE UNDERNEATH THE STRUCTURE.

CLEARANCE CHANGED 10/31/16 - J.C.HUNTSINGER

Title

UNDER CLEARANCE, WBL

Description

SPAN 2, I-240 WBL

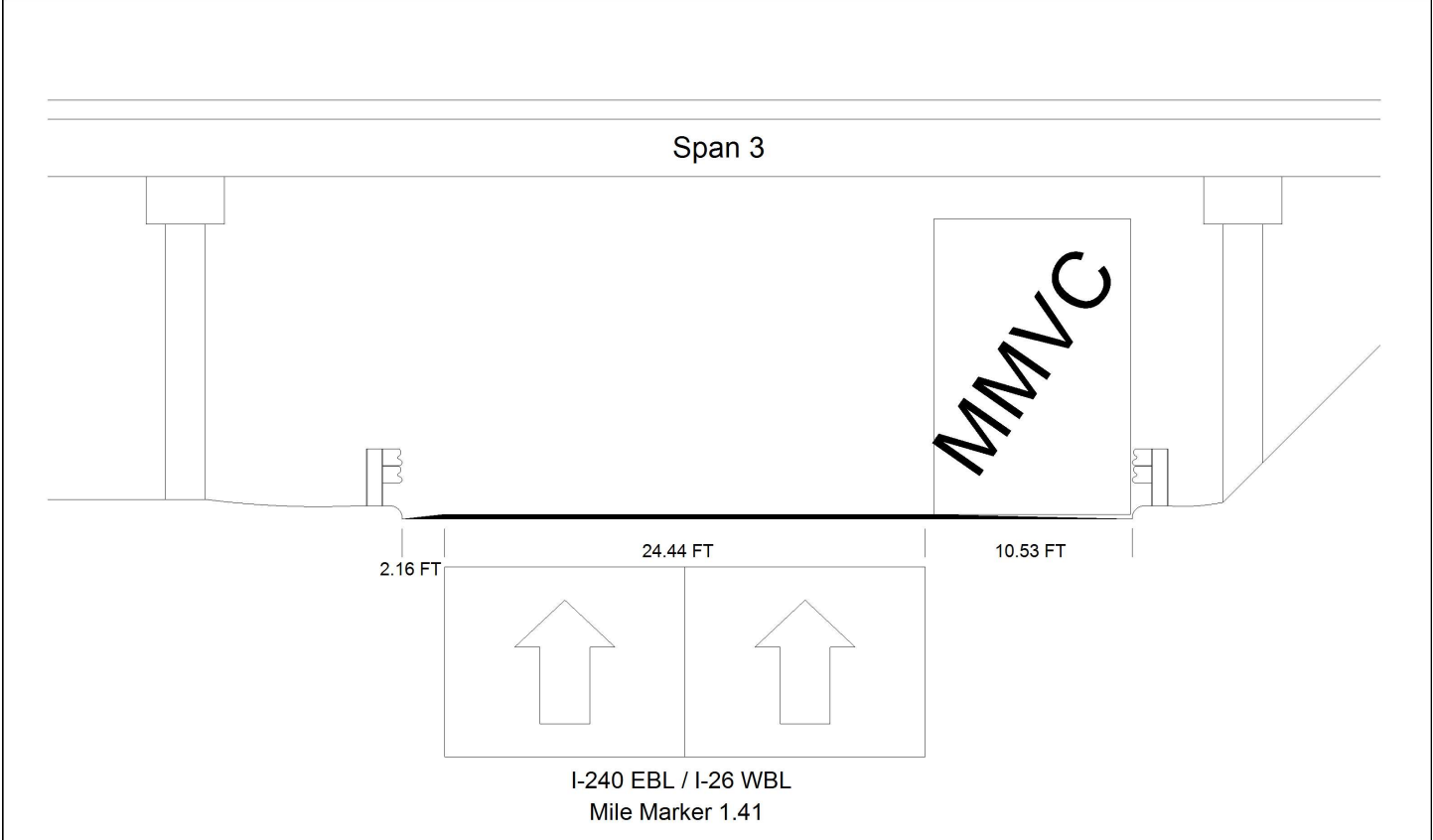
Bridge No: 100257

Drawn By: Roy W. Shook

Date: 11/20/2008

File Name: S0102000720

Bridge Inspection Field Sketch



Roadway 1		Direction of Traffic	East
Distance to Left Rail	2.16FT	Distance to Right Rail	10.53FT
Distance to Left Toe of Slope		Distance to Left Bent	12.2FT
Distance to Right Toe of Slope	15.16FT	Distance to Right Bent	15.16FT
MMVC	25 Ft at Beam 1, 10 FT from FACE OF RIGHT RAIL		
MVC	24.75 Ft at Beam 1, 0 FT from LEFT EDGE OF THRU LANES		

CLEARANCES REDUCED 1" DUE TO NEW WEARING SURFACE UNDERNEATH THE STRUCTURE.

CLEARANCE CHANGED 10/31/16 - J.C.HUNTSINGER

Title		Description	
UNDER CLEARANCE, EBL		SPAN 3, I-240 EBL	
Bridge No: 100257	Drawn By: Roy W. Shook	Date: 11/20/2008	File Name: S0102000721



WEST PROFILE



NEW WEARING SURFACE UNDER STRUCTURE



EAST PROFILE



LOOKING NORTH (BRIDGE CLOSED, REBAR WELDED ACROSS APPROACH TO PREVENT PEDESTRAIN ENTRANCE TO STRUCTURE)



LOOKING SOUTH (BRIDGE CLOSED, REBAR WELDED ACROSS APPROACH TO PREVENT PEDESTRAIN ENTRANCE TO STRUCTURE)



END BENT 2