

ATTENTION: PRIORITY MAINTENANCE, STRUCTURE DATA CHANGE

Structure Safety Report

### **Routine Element Inspection - Contract**

**INSPECTION DATE**: 09/19/2018

DIVISION: 4 COUNTY: NASH	STRUCTURE NUMBER: 63022	21 FRE	QUENCY: 24 MONT	THS
FACILITY CARRIED: SR1544		MILE POST:		
LOCATION: 0.2 MI.W. NC48				
FEATURE INTERSECTED: 195				
LATITUDE: 36° 3' 40.39"	LONGITUDE: 77° 49' 27.41"			
SUPERSTRUCTURE: RC FLOOR/I-BEAI	MS			
SUBSTRUCTURE: E.BTS:RC CAPS/PPC	PILES;INT.BTS:RCP&B/PILE FTGS.			
SPANS: 5 SPANS. SEE SPAN PROFIL	E SHEET FOR SPAN DETAILS			
FRACTURE CRITICAL TEMPO	RARY SHORING SCOUR CRITICAL	SCOUR	PLAN OF ACTION	
GRADES: DECK 5 SUPERSTR	UCTURE 6 SUBSTRUCTURE 6 C	CULVERT N	_	
POSTED SV: Not Posted	POSTED TTST: Not	Posted		
OTHER SIGNS PRESENT: NONE	·			
		Sign notice issued for		Number Required
		NO	WEIGHT LIMIT	0
		NO	DELINEATORS	0
		NO_	NARROW BRIDGE	0
		NO_	ONE LANE BRIDGE	0
		NO_	LOW CLEARANCE	0
	1			
			CTION OF W-E	
		ND.	ECTION	
LOOKING FACT			ECTION HES PLANS	
LOOKING EAST	SIGNATURE		HES PLANS	

# **Structure Element Scoring**

Element Number	Parent Number	Element Name	Location	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity
12	О	Reinforced Concrete Deck	Deck	9288	5103	3801	376	8
107	0	Steel Open Girder/Beam	Beam	1288	1281	7	0	0
515	107	Steel Protective Coating	Beam	10638	10638	0	0	0
205	0	Reinforced Concrete Column	Piles and Columns	8	4	1	3	0
215	0	Reinforced Concrete Abutment	Abutments	80	80	0	0	0
220	0	Reinforced Concrete Pile Cap/Footing	Footing	21	21	0	0	0
226	0	Prestressed Concrete Pile	Piles and Columns	14	14	0	0	0
234	0	Reinforced Concrete Pier Cap	Caps	194	113	25	56	0
301	0	Pourable Joint Seal	Expansion Joints	128	111	9	2	6
311	0	Movable Bearing	Bearing Device	20	4	16	0	0
515	311	Steel Protective Coating	Bearing Device	20	4	0	16	0
313	0	Fixed Bearing	Bearing Device	20	3	17	0	0
515	313	Steel Protective Coating	Bearing Device	20	4	0	16	0
330	0	Metal Bridge Railing	Bridge Rail	650	650	0	0	0

# **Summary of Maintenance Needs**

Maintenance By Defect

MMS Code	Element Name	Defect Name	Recommended Quantity
3326	Reinforced Concrete Deck	Abrasion/Wear (PSC/RC)	200 Square Feet
3326	Reinforced Concrete Deck	Delamination/Spall	32 Square Feet
3326	Reinforced Concrete Deck	Cracking (RC and Other)	3454 Square Feet
3326	Reinforced Concrete Deck	Patched Areas	356 Square Feet
3348	Reinforced Concrete Column	Cracking (RC and Other)	7 Each
3348	Reinforced Concrete Pier Cap	Cracking (RC and Other)	52 Feet
3348	Reinforced Concrete Pier Cap	Delamination/Spall	12 Feet
3310	Pourable Joint Seal	Seal Adhesion	6 Feet
3342	Steel Protective Coating	Oxide Film Degradation Color/Texture Adherence (Steel Protect	1 Square Feet
3342	Steel Protective Coating	Effectiveness (Steel Protective Coatings)	30 Square Feet

## **Element Structure Maintenance Quantities**

Location	MMS Code	Description	Maint Quantity	Total Quantity	Severe Quantity	Poor Quantity	Fair Quantity	Good Quantity
Abutments	3350	Maintenance of Concrete Wings and Wall	0	80	0	0	0	80
Beam	3314	Maintenance Steel Superstructure Components	0	1288	О	О	7	1281
Beam	3342	Clean and Paint Steel	0	10638	О	О	0	10638
Bearing Device	3334	Bridge Bearing	0	40	0	0	33	7
Bearing Device	3342	Clean and Paint Steel	31	40	0	32	0	8
Bridge Rail	3322	Maintenance of Steel Bridge Rail	0	650	0	0	О	650
Caps	3348	Maintenance of Concrete Substructure	64	194	0	56	25	113
Deck	3326	Maintenance of Concrete Deck	4042	9288	8	376	3801	5103
Expansion Joints	3310	Maintenance of Standard Bridge Expansion Joints	6	128	6	2	9	111
Footing	3348	Maintenance of Concrete Substructure	0	21	0	0	0	21
Piles and Columns	3348	Maintenance of Concrete Substructure	7	22	0	3	1	18

### **Element Condition and Maintenance Data**

Structure Number: 630221 Inspection Date: 09/19/2018

Spai	n 1	Deck						
Rein	forced Concrete	Deck						
Elem Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinfor	ced Concrete Deck	1,546	243	1,289	6	8 8	Square Feet
lement lumber	Dofoot Tyme	Defect Description	on		cs	CS Qty	Maint Qty	
12	Delamination/Spall	4' X 18" X 2" DEEP SPALL WITH EXPO CENTER OF EAST BOUND LANE, NEA	-	,	4	8	8	Square Feet
12	Patched Areas	3 FT X 2 FT UNSOUND PATCH AT CE! MIDSPAN.	NTERLINE AT		3	6	6	Square Feet
12	Cracking (RC and Other)	20 FT X 10 FT AREA OF HAIRLINE TRACKING WITH EFFLORESCENCE UNDERSIDE OF DECK IN BAY 3.			2	200	200	Square Feet
12	Cracking (RC and Other)	HAIRLINE MAP CRACKING THROUGH LANE AND WESTBOUND LANE NEAR		UND	2	900	900	Square Feet
12	Cracking (RC and Other)	TRANSVERSE HAIRLINE CRACKS WI'S PACED AT APPROXIMATELY 3 FT C THROUGHOUT FULL LENGTH OF UNI OVERHANG.	ENTERS, AT R	ANDOM	2	53	53	Square Feet
12	Patched Areas	(2) 1 FT DIAMETER ASPHALTIC PATC 10 FEET FROM END BENT 1.	HES, AT CENT	ERLINE,	2	2		Square Feet
12	Patched Areas	(5) 1 FT DIAMETER SOUND PATCHES THROUGHOUT SPAN.	ALONG CENT	ERLINE	2	5		Square Feet
12	Patched Areas	3 FT X 3 FT SOUND PATCH IN SOUTH EASTBOUND TRAVEL LANE AT END E		N OF	2	9		Square Feet
12	Patched Areas	40 FT X 3 FT SOUND ASPHALTIC PAT SOUTHERN PORTION OF EASTBOUN		NE.	2	120		Square Feet

Span 1 Plate G	irder	Beam 1						
Element Number	=	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	='
107	Steel O	pen Girder/Beam	53	52	1	0	0	Feet
515	Steel P	rotective Coating	487	487	0	0	0	Square Feet
Element Number	Defect Type	Defect Des	scription		cs	CS Qty	Maint Qty	
<b>107</b> Dis	stortion	(2) 1/8 IN UPWARD DEFORMAT FT SPACING, SOUTH SIDE OF MIDSPAN.			2	1		Feet

n 1	Near Bearing						
ed Bearing							
nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty		
Fixed Be	earing	1	0	1	0	0	Each
Steel Pro	otective Coating	1	0	0	1	0	Square Feet
t Defect Type	Defect Description	on		cs	CS Qty	Maint Qty	
Corrosion	SURFACE RUST ON BEARING PLATE	S.		2	1	•	Each
Effectiveness (Steel Protective Coatings)	PAINT INEFFECTIVE ON BEARINGS.			3	1		1 Square Feet
	d Bearing nent hber Fixed Be Steel Pro  t Defect Type Corrosion Effectiveness (Steel	d Bearing  nent her Element Name Fixed Bearing Steel Protective Coating  t Defect Type Defect Description Corrosion SURFACE RUST ON BEARING PLATE Effectiveness (Steel PAINT INEFFECTIVE ON BEARINGS.	d Bearing  Total Otty Fixed Bearing 1 Steel Protective Coating 1  Defect Type Defect Description Corrosion SURFACE RUST ON BEARING PLATES. Effectiveness (Steel PAINT INEFFECTIVE ON BEARINGS.	Total CS1 nent Element Name Qty Qty Fixed Bearing 1 0 Steel Protective Coating 1 0   Total CS1 Qty Qty Fixed Bearing 1 0  Steel Protective Coating 1 0  Total CS1 Qty Qty Pty Fixed Bearing 1 0  Steel Protective Coating 1 0	Total CS1 CS2  Prixed Bearing 1 0 1  Steel Protective Coating 1 0 0  Total CS1 CS2 Qty Qty Qty Qty Qty Qty Qty Qty  Fixed Bearing 1 0 0 1  Steel Protective Coating 1 0 0  Total CS1 CS2 Qty	Total   CS1   CS2   CS3   CS3   CS3   CS4   CS4   CS4   CS4   CS5   CS3   CS4   CS4   CS4   CS5   CS4   CS5   CS	Total   CS1   CS2   CS3   CS4

Spa	an 1	Far Bearing						
Мо	vable Bearing							
	ement mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable	e Bearing	1	0	1	0	0	Each
515	Steel Pr	otective Coating	1	0	0	1	0	Square Feet
Eleme	Defect Type	Defect Descrip	tion		cs	CS Qty	Maint Qty	
311	Corrosion	SURFACE RUST ON BEARING PLAT	TE.		2	1	-	Each
515	Effectiveness (Steel Protective Coatings)	PAINT INEFFECTIVE ON BEARING I	PLATE.		3	1		1 Square Feet
	<b>General Comments</b>							

Spa	n 1	Far Bearing	g					
Mov	able Bearing							
Elen Num	nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable	Bearing	1	0	1	0	0	Each
515	Steel Pro	otective Coating	1	0	0	1	0	Square Feet
lement lumber	Dofoct Typo	Defect Desc	ription		cs	CS Qty	Maint Qty	
311	Corrosion	HEAVY SURFACE RUST ON BEA	RING PLATE.		2	1	•	Each
515	Effectiveness (Steel Protective Coatings)	PAINT INEFFECTIVE ON BEARIN	IG PLATE.		3	1		1 Square Feet
-	General Comments							

Spa	an 1	Near Bearing						
Fix	ed Bearing							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed	l Bearing	1	0	1	0	0	Each
515	Steel	Protective Coating	1	0	0	1	0	Square Feet
Eleme Numb	Dofoot Typo	Defect Descriptio	n		cs	CS Qty	Maint Qty	
313	Corrosion	SURFACE RUST ON BEARING PLATES	S.		2	1		Each
515	Effectiveness (Stee Protective Coatings				3	1		1 Square Feet
	<b>General Comments</b>							

Movable I	Bearing							
Element Number		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable B	earing	1	0	1	0	0	Each
515	Steel Prote	ective Coating	1	0	0	1	0	Square Feet
Element Number	Defect Type	Defect Des	cription		cs	CS Qty	Maint Qty	
311 Corros	sion I	BEARING ASSEMBLY HAS SUR	FACE RUST.		2	1	•	Each

515 Effectiveness (Steel

Protective Coatings)

General Comments

PROTECTIVE COATING HAS LIMITED EFFECTIVENESS. 3 1 1 Square Feet

Spa	an 1	Near Bearing	9					
Fix	ed Bearing							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed	d Bearing	1	0	1	0	0 Each	
515	Stee	I Protective Coating	1	0	0	1	0 Square	Feet
Eleme	Dofoot Typo	Defect Descri	ption		CS	CS Qty	Maint Qty	
313	Corrosion	SURFACE RUST ON BEARING PLA	TES.		2	1	Each	1
515	Effectiveness (Stee Protective Coatings		S.		3	1	1 Squa	are Feet
	<b>General Comments</b>	5						

Spa	ın 1	Far Bearing						
Mov	vable Bearing							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	='
311	Movable	Bearing	1	0	1	0	0	Each
515	Steel Pr	otective Coating	1	0	0	1	0	Square Feet
Elemen Numbe	Dofoct Typo	Defect Descri	iption		cs	CS Qty	Maint Qty	
311	Corrosion	BEARING ASSEMBLY HAS SURFA	CE RUST.		2	1		Each
515	Effectiveness (Steel Protective Coatings)	PROTECTIVE COATING HAS LIMIT	TED EFFECTIVEN	ESS.	3	1		Square Feet
,	General Comments							

Spa	nn 2	Deck						
Rei	nforced Concrete	Deck						
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinfor	ced Concrete Deck	2,062	1,435	273	354	0 8	Square Feet
Elemer Numbe	Defect Type	Defect Desc	ription		cs	CS Qty	Maint Qty	
12	Delamination/Spall	2 FT X 1 FT DEALMINATION ON D	T X 1 FT DEALMINATION ON DECK OVERHANG.				2	Square Feet
12	Delamination/Spall	2 FT X 1 FT DELAMINATION AT R NEAR BENT 2.	FT X 1 FT DELAMINATION AT RIGHT OVERHANG COPING IEAR BENT 2.		3	2	2	Square Feet
12	Patched Areas	350 SQ FT AREA OF SOUND AND THROUGHOUT EASTBOUND LAN		HES	3	350	350	Square Feet
12	Abrasion/Wear (PSC/RC)	ABRASION THROUGHOUT WEST RANDOM.	BOUND LANES A	Т	2	200	200	Square Feet
12	Cracking (RC and Other)	1 FT TRANSVERSE CRACK UP TO WESTBOUND LANE AT BENT 2 J	,	)F	2	1	1	Square Feet
12	Cracking (RC and Other)	TRANSVERSE HAIRLINE CRACK LEFT OVERHANG WITH EFFLORESCE			2	72	72	Square Feet

Span 2 Expansion Joint, Bent 1								
Sta	ndard Joint							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
301	Pourab	ole Joint Seal	32	20	5	1	6 F	eet
Elemei Numbe	Dofoct Typo	Defect Desc	cription		cs	CS Qty	Maint Qty	
301	Seal Adhesion	6' OF COMPLETE LOSS OF ADHI JOINT.	ESION AT RANDOM	ALONG	4	6	6	Feet
301	Seal Adhesion	1 FT LENGTH OF ADHESION LO TO 1 1/2 IN DEEP.	SS NEAR RIGHT RA	IL UP	3	1		Feet
301	Adjacent Deck or Header	5' OF ADJACENT DECK HAS BEE BOUND LANE.	EN PATCHED IN EAS	ST	2	5		Feet
	<b>General Comments</b>							

Spa	ın 2	Far Bearing						
Fixe	ed Bearing							
	ment nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Be	earing	1	0	1	0	0	Each
515	Steel Pr	otective Coating	1	0	0	1	0	Square Feet
Elemen Numbe	Dofoct Typo	Defect Descrip	otion		cs	CS Qty	Maint Qty	
313	Corrosion	MINOR SURFACE RUST ON BEARI	NG PLATES.		2	1	-	Each
515	Effectiveness (Steel Protective Coatings)	PAINT INEFFECTIVE ON BEARING	PLATES.		3	1		1 Square Feet
,	General Comments							

Spa	an 2	Far Bearing	1					
Fixe	ed Bearing							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed B	earing	1	0	1	0	0	Each
515	Steel P	rotective Coating	1	0	0	1	0	Square Feet
Elemer Numbe	Dofoot Typo	Defect Desc	ription		cs	CS Qty	Maint Qty	
313	Corrosion	MINOR SURFACE RUST ON BEAL	RING PLATES.		2	1		Each
515	Effectiveness (Steel Protective Coatings)	PAINT INEFFECTIVE ON BEARING	G PLATES.		3	1		1 Square Feet
	<b>General Comments</b>							

Spa	n 2	Far Bearin	g					
Fixe	d Bearing							
Elen Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Be	earing	1	0	1	0	0	Each
515	Steel Pr	otective Coating	1	0	0	1	0	Square Feet
Element Number	Dofoot Typo	Defect Des	cription		cs	CS Qty	Maint Qty	
313	Corrosion	HEAVY SURFACE RUST ON SOI	LE PLATE.		2	1	•	Each
515	Effectiveness (Steel Protective Coatings)	PAINT INEFFECTIVE ON SOLE F	PLATE.		3	1		1 Square Feet

**General Comments** 

Spa	an 2	Far Bearing						
Fix	ed Bearing							
	ement mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed B	earing	1	0	1	0	0	Each
515	Steel Pr	otective Coating	1	0	0	1	0	Square Feet
Eleme	Dofoot Typo	Defect Descr	iption		cs	CS Qty	Maint Qty	
313	Corrosion	MINOR SURFACE RUST ON BEAR	ING PLATES.		2	1	-	Each
515	Effectiveness (Steel Protective Coatings)	PAINT INEFFECTIVE ON BEARING	S PLATES.		3	1		1 Square Feet
	<b>General Comments</b>							

	nforced Concrete	Deck						
Elen Nun	nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinfor	ced Concrete Deck	1,904	1	1,898	5	0 S	quare Feet
lemen lumbe	Dofoct Typo	Defect Des	scription		cs	CS Qty	Maint Qty	
12	Delamination/Spall	1 FT DIAMETER DELAMINATION RIGHT OVERHANG.	N 15 FT FROM BENT	2 IN	3	1	1	Square Feet
12	Delamination/Spall	2 FT X 2 FT DELAMINATION AT OVERHANG.	DRAIN IN RIGHT		3	4	4	Square Feet
12	Cracking (RC and Other)	HAIRLINE MAP CRACKING THE	ROUGHOUT.		2	1,898	1,904	Square Feet

Spai	า 3	Expansion	Joint, Bent 2					
Stan	dard Joint							
Elem Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
301	Pourab	le Joint Seal	32	31	0	1	0 Feet	
lement lumber	Dofoot Typo	Defect Desc	ription		cs	CS Qty	Maint Qty	
301	Seal Adhesion	1' OF PARTIAL LOSS OF ADHESI	ON, NEAR SOUTH	CURB.	3	1	Feet	
(	General Comments							

Span 3 Beam 4 **Plate Girder** Element CS1 CS2 CS4 CS3 Total **Element Name** Number Qty Qty Qty Qty Qty 107 Steel Open Girder/Beam 60 0 Feet 66 6 0 515 Steel Protective Coating 602 602 0 0 0 Square Feet Element Maint **Defect Type Defect Description** CS CS Qty Number Qty 6 FT LENGTH OF CORROSION ON BOTTOM OF WEB 2 107 6 Corrosion Feet PAINTED OVER.

Spa	an 3	Near Bearir	ng					
Mo	vable Bearing							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable	Bearing	1	0	1	0	0	Each
515	Steel Pr	otective Coating	1	0	0	1	0	Square Feet
Eleme	Defect Type	Defect Descri	ription		cs	CS Qty	Maint Qty	
311	Corrosion	MINOR SURFACE RUST ON BEAR	RING PLATES.		2	1	-	Each
515	Effectiveness (Steel Protective Coatings)	PAINT INEFFECTIVE ON BEARING	G PLATES.		3	1		1 Square Feet
	<b>General Comments</b>							

Spar	า 3	Far Bearing	9					
Fixe	d Bearing							
Elem Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Be	earing	1	0	1	0	0	Each
515	Steel Pr	otective Coating	1	0	0	1	0	Square Feet
Element Number	Dofoct Typo	Defect Desc	ription		cs	CS Qty	Maint Qty	
313	Corrosion	SURFACE RUST ON BEARING PL	_ATES.		2	1	•	Each
515	Effectiveness (Steel Protective Coatings)	PAINT INEFFECTIVE AT BEARING	G PLATES.		3	1		1 Square Feet
(	General Comments							

Spa	an 3	Near Bearin	ng					
Мо	vable Bearing							
	ement mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable	Bearing	1	0	1	0	0	Each
515	Steel Pr	otective Coating	1	0	0	1	0	Square Feet
Eleme	Dofoot Typo	Defect Desc	ription		cs	CS Qty	Maint Qty	_
311	Corrosion	MINOR SURFACE RUST ON BEA	RING PLATES.		2	1		Each
515	Effectiveness (Steel Protective Coatings)	PAINT INEFFECTIVE ON BEARIN	G PLATES.		3	1		1 Square Feet
	General Comments							

Span 3		Far Bearing	g					
Fixed Be Element Number		ement Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Bearing		1	0	1	0	-	Each
515	Steel Protective	Coating	1	0	0	1	0	Square Feet
lement lumber	Defect Type	Defect Desc	ription		cs	CS Qty	Maint Qty	
<b>313</b> Corro	sion SURF	ACE RUST ON BEARING P	LATES.		2	1	,	Each

515 Effectiveness (Steel

Protective Coatings)

General Comments

PAINT INEFFECTIVE AT BEARING PLATES.

1

3

1 Square Feet

Span 3	Near Bearing
Movable Bearing	

Element	Defeat Time	Defect Description			CC	CC 044	Maint
515	Steel Protective Coating		1	0	0	1	0 Square Feet
311	Movable Bearing		1	0	1	0	0 Each
Element Number			Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty

Elemen Numbe	Dofoot Typo	Defect Description	cs	CS Qty	Maint Qty
311	Corrosion	MINOR SURFACE RUST ON BEARING PLATES.	2	1	Each
515	Effectiveness (Steel	PAINT INEFFECTIVE ON BEARING PLATES.	3	1	1 Square Feet

**General Comments** 

#### Span 3 Far Bearing

#### **Fixed Bearing**

Element Number	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
313	Fixed Bearing	1	0	1	0	0 Each
515	Steel Protective Coating	1	0	0	1	0 Square Feet

Elemen Numbe		Defect Description	cs	CS Qty	Maint Qty	
313	Corrosion	SURFACE RUST ON BEARING PLATES.	2	1		Each
515	Effectiveness (Steel Protective Coatings)	PAINT INEFFECTIVE AT BEARING PLATES.	3	1	1	Square Feet

**General Comments** 

Near	Bearin
	Near

#### **Movable Bearing**

Element		Total	CS1	CS2	CS3	CS4
Number	Element Name	Qty	Qty	Qty	Qty	Qty
311	Movable Bearing	1	0	1	0	0 Each
515	Steel Protective Coating	1	0	0	1	0 Square Feet

Elemen Number	Defect Time	Defect Description	cs	CS Qty	Maint Qty
311	Corrosion	MINOR SURFACE RUST ON BEARING PLATES.	2	1	Each
515	Effectiveness (Steel Protective Coatings)	PAINT INEFFECTIVE ON BEARING PLATES.	3	1	1 Square Feet

Span 3		Far Bearing	l					
Fixed E	Bearing							
Elemen Number	-	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed	Bearing	1	0	1	0	0	Each
515	Steel	Protective Coating	1	1	0	0	0	Square Feet
Element Number	Defect Type	Defect Descr	ription		cs	CS Qty	Maint Qty	
<b>313</b> Co	rrosion	SURFACE RUST ON BEARING PL	ATES.		2	1	-	Each

Spa	n 4	Deck						
Rei	nforced Concrete	Deck						
	nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinfor	ced Concrete Deck	2,321	2,244	75	2	0 S	quare Feet
lemen lumbe	Dofoot Typo	Defect Desc	ription		cs	CS Qty	Maint Qty	
12	Delamination/Spall	1 FT X 6 IN DELAMINATION ON L FROM BENT 3 OVER LEFT LANE.	,	30 FT	3	1	1	Square Feet
12	Delamination/Spall	18 IN X 6 IN DELAMINATION ON L FROM BENT 3, OVER MIDDLE LA		, 40 FT	3	1	1	Square Feet
12	Cracking (RC and Other)	AREAS OF TRANSVERE MAP CR RANDOM THROUGHOUT EASTB		/32 IN AT	2	60	60	Square Feet
12	Delamination/Spall	2 FT X 2 FT DELAMINATION ON L FROM BENT 3.	EFT OVERHANG	, 25 FT	2	4	4	Square Feet
12	Patched Areas	2 FT X 2 FT PATCH ON LEFT OVE BENT 3 OVER MIDDLE LANE.	ERHANG, 45 FT FI	ROM	2	1		Square Feet
12	Patched Areas	5 FT X 2 FT PATCH ON RIGHT ON BENT 3.	/ERHANG, 30 FT	FROM	2	10		Square Feet

Spa	ın 4	Expansion	n Joint, Bent 3					
Sta	ndard Joint							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
301	Pourab	le Joint Seal	32	30	2	0	0 Feet	
Elemer	Dofoct Typo	Defect Des	scription		cs	CS Qty	Maint Qty	
301	Adjacent Deck or Header	18" X 5" DELAMINATION, ALON- SOUTH CURB.	G SPAN 4 HEADER, I	NEAR	2	2	Feet	
	<b>General Comments</b>							_

Spar	า 4			Near Bearing						
Mov	able Beari	ng								
Elem Num			Element Name		Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311		Movable	Bearing		1	0	1	0	0	Each
515		Steel Pro	otective Coating		1	0	0	1	0	Square Feet
Element Number	Dofoct	Туре		Defect Description			cs	CS Qty	Maint Qty	
311	Corrosion		SURFACE RUST O	N BEARING PLATES.			2	1		Each

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3

1 Square Feet

PROTECTIVE COATING INEFFECTIVE ON BEARING Effectiveness (Steel

Protective Coatings) PLATES.

**General Comments** 

Spa	an 4	Far Bearin	ng					
Fix	ed Bearing							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fix	ed Bearing	1	0	1	0	0	Each
515	Ste	el Protective Coating	1	0	0	1	0	Square Feet
Eleme	Dofoct Type	e Defect Des	scription		cs	CS Qty	Maint Qty	
313	Corrosion	SURFACE RUST ON BEARING I	PLATES.		2	1		Each
515	Effectiveness (St Protective Coatin		ECTIVE ON BEARING		3	1		1 Square Feet
	General Commen	ts						

Spa	an 4	Near Bearing	)					
Мо	vable Bearing							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movab	e Bearing	1	0	1	0	0	Each
515	Steel P	rotective Coating	1	0	0	1	0	Square Feet
Elemei Numbe	Dofoct Typo	Defect Descri	ption		cs	CS Qty	Maint Qty	
311	Corrosion	SURFACE RUST ON BEARING PLA	TES.		2	1		Each
515	Effectiveness (Steel Protective Coatings)	PROTECTIVE COATING INEFFECT PLATES.	IVE ON BEARING		3	1		1 Square Feet
	<b>General Comments</b>							

Spai	n 4	Far Bearin	ng					
Fixe	d Bearing							
Elen Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed E	Bearing	1	0	1	0	0	Each
515	Steel P	Protective Coating	1	0	0	1	0	Square Feet
Element Number	Dofoot Typo	Defect Des	cription		cs	CS Qty	Maint Qty	
313	Corrosion	SURFACE RUST ON BEARING F	PLATES.		2	1	-	Each
515	Oxide Film Degradation Color/Texture Adherence (Steel Protective Coatings)	PROTECTIVE COATING INEFFE PLATES.	ECTIVE ON BEARING		3	1		1 Square Feet

Spa	an 4	Near Bearin	g					
Мо	vable Bearing							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movabl	e Bearing	1	0	1	0	0	Each
515	Steel P	rotective Coating	1	0	0	1	0	Square Feet
Eleme	Dofoct Typo	Defect Descr	iption		cs	CS Qty	Maint Qty	
311	Corrosion	SURFACE RUST ON BEARING PL	ATES.		2	1	-	Each
515	Effectiveness (Steel Protective Coatings)	PROTECTIVE COATING INEFFECT PLATES.	TIVE ON BEARING		3	1		1 Square Feet
	<b>General Comments</b>							

Spa	n 4	Far B	earing					
Fixe	ed Bearing							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixe	ed Bearing	1	0	1	0	0	Each
515	Stee	el Protective Coating	1	0	0	1	0	Square Feet
Elemer Numbe	Dofoct Type	e Defec	ct Description		cs	CS Qty	Maint Qty	
313	Corrosion	SURFACE RUST ON BEAR	RING PLATES.		2	1	•	Each
515	Effectiveness (Ste Protective Coating		NEFFECTIVE ON BEARING		3	1		1 Square Feet
	General Commen	ts						

Spa	an 4		Near B	earing					
Мо	vable Bea	ring							
	ement imber		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311		Movable	Bearing	1	0	1	0	0	Each
515		Steel Pr	otective Coating	1	0	0	1	0	Square Feet
Eleme Numb	Dofo	ct Type	Defect	Description		cs	CS Qty	Maint Qty	
311	Corrosion		SURFACE RUST ON BEARIN	IG PLATES.		2	1		Each
515	Effectivene Protective		PROTECTIVE COATING INE PLATES.	FFECTIVE ON BEARING		3	1		1 Square Feet
	General Co	mments							

Spar Fixe	n 4 d Bearing	Far Beari	ng					
Elem Num 313		Element Name	Total Qty 1	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
515		otective Coating	1	0	0	1	_	Square Feet
Element Number	Dofoct Typo	Defect De	scription		cs	CS Qty	Maint Qty	
313	Corrosion	SURFACE RUST ON BEARING	PLATES.		2	1	•	Each
	Effectiveness (Steel Protective Coatings)	PROTECTIVE COATING INEFF PLATES.	ECTIVE ON BEARING		3	1		1 Square Feet

Spa	n 5	Deck									
Reir	Reinforced Concrete Deck										
	<b>nent</b> n <b>ber</b> Reinfor	Element Name ced Concrete Deck	Total Qty 1,455	<b>CS1 Qty</b> 1,180	<b>CS2 Qty</b> 266	<b>CS3</b> <b>Qty</b> 9	<b>CS4</b> <b>Qty</b> 0 S	quare Feet			
lemen lumbe	Dofoot Typo	Defect Desc	ription		cs	CS Qty	Maint Qty				
12	Delamination/Spall	2 FT X 4 FT AREA OF DELAMINA TO 1/2 DEEP, EASTBOUND LANE			3	9	9	Square Fee			
12	Cracking (RC and Other)	FULL LENGTH MAP CRACKING F EASTBOUND LANE, FULL LENGT			2	250	250	Square Feet			
12	Cracking (RC and Other)	TRANSVERSE HAIRLINE CRACK LEFT	S ON UNDERSIDE	OF	2	4	4	Square Feet			
12	Cracking (RC and Other)	TRANSVERSE HAIRLINE CRACK AT RANDOM THROUGHOUT UND OVERHANG.			2	10	10	Square Feet			
12	Patched Areas	1 FT X 2 FT SOUND PATCH IN EA	ASTBOUND LANE,	10 FT	2	2		Square Feet			

Spar	n 5	Expansion	n Joint, Bent 4					
Stan	dard Joint							
Elem Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
301	Pourab	le Joint Seal	32	30	2	0	0 Feet	
Element Number	Dofoot Typo	Defect Des	scription		cs	CS Qty	Maint Qty	
301	Seal Adhesion	2' OF PARTIAL LOSS OF ADHES EAST BOUND LANE.	SION, NEAR CENTER	ROF	2	2	Feet	
(	General Comments							_

Spa	an 5	Near Bear	ing					
Mov	vable Bearing							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable	e Bearing	1	0	1	0	0	Each
515	Steel Pr	otective Coating	1	0	0	1	0	Square Feet
Elemer Numbe	Dofoot Typo	Defect Des	cription		cs	CS Qty	Maint Qty	
311	Corrosion	BEARING ASSEMBLY HAS SUR	FACE RUST.		2	1	-	Each
515	Effectiveness (Steel Protective Coatings)	PROTECTIVE COATING HAS LIN	MITED EFFECTIVENE	ESS.	3	1		1 Square Feet
	<b>General Comments</b>							

Spa	n 5	Near Beari	ng					
Mov	able Bearing							
	nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable	Bearing	1	0	1	0	0	Each
515	Steel Pr	otective Coating	1	0	0	1	0	Square Feet
Elemen Numbe	Dofoct Typo	Defect Desc	ription		cs	CS Qty	Maint Qty	
311	Corrosion	BEARING ASSEMBLY HAS SURF	ACE RUST.		2	1	•	Each
515	Effectiveness (Steel Protective Coatings)	PROTECTIVE COATING HAS LIM	IITED EFFECTIVEN	ESS.	3	1		1 Square Feet
•	General Comments							

Spa	an 5	Near Bearing	g					
Мо	vable Bearing							
	ement mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable	e Bearing	1	0	1	0	0	Each
515	Steel Pr	otective Coating	1	0	0	1	0	Square Feet
Eleme Numbe	Dofoct Typo	Defect Descri	ption		cs	CS Qty	Maint Qty	
311	Corrosion	BEARING ASSEMBLY HAS SURFA	CE RUST.		2	1	-	Each
515	Effectiveness (Steel Protective Coatings)	PROTECTIVE COATING HAS LIMIT	ED EFFECTIVEN	ESS.	3	1		1 Square Feet
	General Comments							

Spa	n 5	Far Bearin	ng					
Fixe	ed Bearing							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fixed Be	earing	1	0	1	0	0	Each
515	Steel Pr	otective Coating	1	0	0	1	0	Square Feet
Elemer	Dofoot Typo	Defect Des	scription		cs	CS Qty	Maint Qty	
313	Corrosion	BEARING ASSEMBLY HAS SUR	FACE RUST.		2	1	•	Each
515	Effectiveness (Steel Protective Coatings)	PROTECTIVE COATING HAS LI	MITED EFFECTIVEN	ESS.	3	1		1 Square Feet
	General Comments							

Spai	n 5	Near Bear	ing					
Mov	able Bearing							
Elen Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
311	Movable	e Bearing	1	0	1	0	0	Each
515	Steel Pr	otective Coating	1	0	0	1	0	Square Feet
Element Number	Dofoct Typo	Defect Des	cription		cs	CS Qty	Maint Qty	
311	Corrosion	BEARING ASSEMBLY HAS SUR	FACE RUST.		2	1		Each
515	Effectiveness (Steel Protective Coatings)	PROTECTIVE COATING HAS LIN	MITED EFFECTIVENE	ESS.	3	1		1 Square Feet

Spa	an 5		Far Bearing						
Fix	ed Bearing								
	ment mber	Element Nan	ie	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
313	Fi	ixed Bearing		1	0	1	0	0	Each
515	S	teel Protective Coating		1	0	0	1	0	Square Feet
Eleme	Dofoot Tv	pe	Defect Description			cs	CS Qty	Maint Qty	
313	Corrosion	BEARING ASSE	MBLY HAS SURFACE RU	ST.		2	1	-	Each
515	Effectiveness (S Protective Coat		DATING HAS LIMITED EF	FECTIVEN	ESS.	3	1		1 Square Feet
	General Comme	ents							

nt 1	Cap 1						
nforced Concrete	Pier Cap						
mber	Element Name ced Concrete Pier Cap	Total Qty 29	<b>CS1 Qty</b> 10	CS2 Qty	CS3 Qty	<b>CS4 Qty</b> 0 Fe	eet
Dofoot Typo	Defect Desc	ription		cs	CS Qty	Maint Qty	
Delamination/Spall	15" X 7'X 3" SPALL, EAST FACE ONO LOSS OF BEARING AREA.	OF SPAN 1 BEAM 2	SEAT.	3	2	2	Feet
Cracking (RC and Other)	HAIRLINE MAP CRACKING, WES AND 2.	T FACE BELOW BE	AMS 1	2	9		Feet
Delamination/Spall	2 FT X 6 FT DELAMINATION, EAS	T FACE BELOW BE	EAM 1.	2	3	3	Feet
Delamination/Spall	20" X 6" DELAMINATION, EAST FA	ACE OF SPAN 1 BE	EAM 3	2		2	Feet
Patched Area	2' X 18" SOUND PATCH, WEST FA	ACE BELOW BEAM	4.	2	2		Feet
Patched Area	30" X 2' SOUND PATCHED AREA, BEAM 3.	WEST FACE BELO	)W	2	3		Feet
	ment mber Reinford  The Defect Type Delamination/Spall  Cracking (RC and Other) Delamination/Spall Delamination/Spall Patched Area	ment mber Element Name Reinforced Concrete Pier Cap  Total Defect Type Defect Description   Delamination/Spall 15" X 7'X 3" SPALL, EAST FACE ON LOSS OF BEARING AREA.  Cracking (RC and Other) AND 2. Delamination/Spall 2 FT X 6 FT DELAMINATION, EAST FACE ON Concrete Pier Cap  Total Defect Description   Defect Description   NO LOSS OF BEARING AREA.  Cracking (RC and Other) AND 2.  Delamination/Spall 2 FT X 6 FT DELAMINATION, EAST FACE CONCRETE   SEAT.  Patched Area 2" X 18" SOUND PATCHED AREA,  Patched Area 30" X 2" SOUND PATCHED AREA,	ment Blement Name Qty Reinforced Concrete Pier Cap 29  Total Concrete Pier Cap 29  Tota	ment Blement Name Reinforced Concrete Pier Cap  Total CS1 Qty Qty Reinforced Concrete Pier Cap 29 10  Total CS1 Qty Qty Qty Reinforced Concrete Pier Cap 29 10  Total CS1 Qty Qty Qty Reinforced Concrete Pier Cap 29 10  Total CS1 Qty Qty Qty Reinforced Concrete Pier Cap 29 10  Total CS1 Qty Qty Qty Qty Reinforced Concrete Pier Cap 29 10  Total CS1 Qty	ment Blement Name Reinforced Concrete Pier Cap  Total CS1 CS2 Qty Qty Qty Qty Reinforced Concrete Pier Cap 29 10 17  Total CS1 CS2 Qty Qty Qty Qty Qty Qty Reinforced Concrete Pier Cap 29 10 17  Total CS1 CS2 Qty Qty Qty Qty Qty Qty Qty Reinforced Concrete Pier Cap 29 10 17  Total CS1 CS2 Qty	ment Element Name Qty	ment Element Name Qty

Bei	nt 1	Pile 2							
Rei	nforced Concrete	Column							
	ment mber Reinford	Element Name ced Concrete Column	Total Qty 1	CS1 Qty 0	CS2 Qty	<b>CS3 Qty</b> 0	CS4 Qty 0	Each	
Elemei Numbe	Dofoot Typo	Defect Desc	cription		cs	CS Qty	Maint Qty		-
205	Cracking (RC and Other)	4 FT VERTICAL CRACK UP TO 1 SOUTH FACE, SIMILAR ON NOR	•		2	1		Each	
	General Comments								

End	l Bent 1	Cap 1						
Rei	nforced Concrete	Pier Cap						
	ment nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinford	ced Concrete Pier Cap	41	21	0	20	0 Feet	
Elemen Numbe	Dofoot Typo	Defect Desc	cription		cs	CS Qty	Maint Qty	
234	Cracking (RC and Other)	20 FT HORIZONTAL CRACK UP BEAMS 1 THROUGH 4.	TO 1/8 IN, BETWEEN		3	20	20 Feet	
	General Comments							_

Ber	nt 2	Cap 1						
Rei	nforced Concrete	Pier Cap						
	ment mber Reinfor	Element Name rced Concrete Pier Cap	Total Qty 29	<b>CS1 Qty</b> 26	CS2 Qty 3	CS3 Qty 0	CS4 Qty 0 Feet	
Elemei Numbe	Defect Type	Defect Descr	ription		cs	CS Qty	Maint Qty	
234	Cracking (RC and Other)	1 FT VERTICAL CRACK WITH EFF IN BELOW BEAM 1, NEAR TOP OF			2	1	Feet	
234	Cracking (RC and Other)	HAIRLINE MAP CRACKS WITH EF UNDERSIDE OF CAP, BELOW BE	,		2	2	Feet	
	<b>General Comments</b>							

Ber	nt 3	Cap 1						
Rei	nforced Concrete	Pier Cap						
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinfor	ced Concrete Pier Cap	29	28	0	1	0 Feet	
Elemei	Dofoct Type	Defect Des	cription		cs	CS Qty	Maint Qty	
234	Delamination/Spall	2 FT X 6 IN SPALL WITH EXPOS UNDERSIDE OF RIGHT END OF		NT ON	3	1	1 Feet	
	General Comments							

Bei	nt 3	Pile 1						
Rei	inforced Concrete	Column						
	ement mber Reinfor	Element Name ced Concrete Column	Total Qty 1	CS1 Qty 0	CS2 Qty	CS3 Qty	CS4 Qty 0 Each	
Elemen Numbe	Defect Type	Defect Desc	ription		cs	CS Qty	Maint Qty	
205	Cracking (RC and Other)	3 FT VERTICAL CRACK UP TO 1/3 COLUMN NEAR TOP.	8 IN ON SOUTH FA	CE OF	3	1	1 Each	
	General Comments							

Ben	t 4	Cap 1						
Reir	forced Concrete	Pier Cap						
Elen Nun		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinfor	ced Concrete Pier Cap	29	0	1	28	0 F	eet
emen	Dofoot Typo	Defect Descri	iption		cs	CS Qty	Maint Qty	
234	Cracking (RC and Other)	20 FT HORIZONTAL CRACK UP TO CAP NEAR TOP.	O 1/8" ON WEST F.	ACE OF	3	20	20	Feet
234	Cracking (RC and Other)	40" HORIZONTAL CRACK UP TO 1 BELOW BEAM 4.	/8" EAST FACE OI	F CAP,	3	4		Feet
234	Delamination/Spall	2 FT X 1 FT AREA OF DELAMINAT CAP BELOW BAY 3.	ION ON EAST FAC	E OF	3	2	2	Feet
234	Delamination/Spall	3 FT X 3 FT AREA OF SPALLING A SOUTH FACE OF BENT CAP.	ND DELAMINATIO	N,	3	2	2	Feet
234	Cracking (RC and Other)	5 FT HORIZONTAL CRACK UP TO OF CAP BELOW BAY 2.	1/16 IN ON UNDE	RSIDE	2	1	5	Feet
234	Cracking (RC and Other)	8' OF HORIZONTAL CRACKING UP CAP BELOW BAY 1.	P TO 1/32" EAST F	ACE OF	2			Feet

Ben	t 4	Pile 1						
Reir	nforced Concrete	Column						
	nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
205	Reinfor	ced Concrete Column	1	0	0	1	0 E	ach
Elemen Numbe	Dofoct Type	Defect Des	scription		cs	CS Qty	Maint Qty	
205	Cracking (RC and Other)	3 FT VERTICAL CRACK UP TO OF COLUMN.	1/16 IN TOP OF SOUT	H FACE	3	1	3	Each
-	General Comments							

Ben	t 4	Pile 2						
Reir	nforced Concrete	Column						
Elen Nun		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
205	Reinfor	ced Concrete Column	1	0	0	1	0 Ea	ach
Elemen Numbe	Dofoot Typo	Defect Des	cription		cs	CS Qty	Maint Qty	
205	Cracking (RC and Other)	3 FT VERTICAL CRACK UP TO 1	I/16", TOP OF SOUT	H FACE.	3	1	3	Each
-	General Comments							

Bent 5		Cap 1						
Rein	forced Concrete	Pier Cap						
Elem Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinfor	ced Concrete Pier Cap	37	28	4	5	0 F	eet
lement lumber	Dofoct Typo	Defect Des	scription		cs	CS Qty	Maint Qty	
	Cracking (RC and Other)	5 FT HORIZONTAL CRACK UP 1	TO 1/8 IN, BELOW BA	AY 3.	3	5	5	Feet
	Cracking (RC and Other)	2 FT HORIZONTAL CRACK UP 1	TO 1/32" BELOW BAY	<i>(</i> 2.	2	2		Feet

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2 Feet

2 FT HORIZONTAL HAIRLINE CRACK IN TOP OF CAP NEXT Cracking (RC and

Other) TO BEAM 2 IN BAY 1.

### **Elements Verfied**

Location	Name	Component	Element Name	Amount
Span 1	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1546
Span 1	Beam 1	Plate Girder	Steel Open Girder/Beam	53
Span 1	Beam 2	Plate Girder	Steel Open Girder/Beam	53
Span 1	Beam 3	Plate Girder	Steel Open Girder/Beam	53
Span 1	Beam 4	Plate Girder	Steel Open Girder/Beam	54
Span 1	Left Bridge Rail	Aluminum Bridge Rail	Metal Bridge Railing	54
Span 1	Right Bridge Rail	Aluminum Bridge Rail	Metal Bridge Railing	54
Span 1	Far Bearing	Movable Bearing	Movable Bearing	1
Span 1	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 1	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 1	Far Bearing	Movable Bearing	Movable Bearing	1
Span 1	Far Bearing	Movable Bearing	Movable Bearing	1
Span 1	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 1	Near Bearing	Fixed Bearing	Fixed Bearing	1
Span 1	Far Bearing	Movable Bearing	Movable Bearing	1
Span 2	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	2062
Span 2	Beam 1	Plate Girder	Steel Open Girder/Beam	72
Span 2	Beam 2	Plate Girder	Steel Open Girder/Beam	72
Span 2	Beam 3	Plate Girder	Steel Open Girder/Beam	72
Span 2	Beam 4	Plate Girder	Steel Open Girder/Beam	72
Span 2	Left Bridge Rail	Aluminum Bridge Rail	Metal Bridge Railing	72
Span 2	Right Bridge Rail	Aluminum Bridge Rail	Metal Bridge Railing	72
Span 2	Expansion Joint, Bent 1	Standard Joint	Pourable Joint Seal	32
Span 2	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 2	Near Bearing	Movable Bearing	Movable Bearing	1
Span 2	Near Bearing	Movable Bearing	Movable Bearing	1
Span 2	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 2	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 2	Near Bearing	Movable Bearing	Movable Bearing	1
Span 2	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 2	Near Bearing	Movable Bearing	Movable Bearing	1
Span 3	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1904
Span 3	Beam 1	Plate Girder	Steel Open Girder/Beam	64
Span 3	Beam 2	Plate Girder	Steel Open Girder/Beam	65
Span 3	Beam 3	Plate Girder	Steel Open Girder/Beam	65
Span 3	Beam 4	Plate Girder	Steel Open Girder/Beam	66
Span 3	Left Bridge Rail	Aluminum Bridge Rail	Metal Bridge Railing	67
Span 3	Right Bridge Rail	Aluminum Bridge Rail	Metal Bridge Railing	67
Span 3	Expansion Joint, Bent 2	Standard Joint	Pourable Joint Seal	32
Span 3	Near Bearing	Movable Bearing	Movable Bearing	1
Span 3	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 3	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 3	Near Bearing	Movable Bearing	Movable Bearing	1
Span 3	Near Bearing	Movable Bearing	Movable Bearing	1
Span 3	Far Bearing	Fixed Bearing	Fixed Bearing	1

### **Elements Verfied**

Location	Name	Component	Element Name	Amount
Span 3	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 3	Near Bearing	Movable Bearing	Movable Bearing	1
Span 4	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	2321
Span 4	Beam 1	Plate Girder	Steel Open Girder/Beam	81
Span 4	Beam 2	Plate Girder	Steel Open Girder/Beam	81
Span 4	Beam 3	Plate Girder	Steel Open Girder/Beam	81
Span 4	Beam 4	Plate Girder	Steel Open Girder/Beam	81
Span 4	Left Bridge Rail	Aluminum Bridge Rail	Metal Bridge Railing	81
Span 4	Right Bridge Rail	Aluminum Bridge Rail	Metal Bridge Railing	81
Span 4	Expansion Joint, Bent 3	Standard Joint	Pourable Joint Seal	32
Span 4	Near Bearing	Movable Bearing	Movable Bearing	1
Span 4	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 4	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 4	Near Bearing	Movable Bearing	Movable Bearing	1
Span 4	Near Bearing	Movable Bearing	Movable Bearing	1
Span 4	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 4	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 4	Near Bearing	Movable Bearing	Movable Bearing	1
Span 5	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1455
Span 5	Beam 1	Plate Girder	Steel Open Girder/Beam	51
Span 5	Beam 2	Plate Girder	Steel Open Girder/Beam	51
Span 5	Beam 3	Plate Girder	Steel Open Girder/Beam	51
Span 5	Beam 4	Plate Girder	Steel Open Girder/Beam	50
Span 5	Left Bridge Rail	Aluminum Bridge Rail	Metal Bridge Railing	51
Span 5	Right Bridge Rail	Aluminum Bridge Rail	Metal Bridge Railing	51
Span 5	Expansion Joint, Bent 4	Standard Joint	Pourable Joint Seal	32
Span 5	Near Bearing	Movable Bearing	Movable Bearing	1
Span 5	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 5	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 5	Near Bearing	Movable Bearing	Movable Bearing	1
Span 5	Far Bearing	Fixed Bearing	Fixed Bearing	1
Span 5	Near Bearing	Movable Bearing	Movable Bearing	1
Span 5	Near Bearing	Movable Bearing	Movable Bearing	1
Span 5	Far Bearing	Fixed Bearing	Fixed Bearing	1
Bent 1	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	29
Bent 1	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 1	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1
End Bent 1	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	41
End Bent 1	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	40
Bent 2	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	29
Bent 2	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 2	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 3	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	29
Bent 3	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 3	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1

### **Elements Verfied**

Location	Name	Component	Element Name	Amount
Bent 4	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	29
Bent 4	Pile 1	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 4	Pile 2	Reinforced Concrete Column	Reinforced Concrete Column	1
Bent 5	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	37
Bent 5	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	40

# **General Inspection Notes**

# **National Bridge and NC Inspection Items**

Structure Number: 630221 Inspection Date: 09/19/2018

#### **National Bridge Inventory Items**

Item	Grade Scale	Grade
Item 58: Deck	0 - 9 , N	5
Item 59: Superstructure	0 - 9 , N	6
Item 60: Substructure	0 - 9 , N	6
Item 61: Channel and Channel Protection	0 - 9 , N	N
Item 62: Culvert	0 - 9 , N	N
Item 71: Waterway Adequacy	0 - 9 , N	N
Item 72: Approach Roadway Alignment	0 - 9 , N	8

Note: If NBI Inspection Item is not present, code NBI item with "N"

#### **NC SMU Inspection Items**

Item	Grade Scale	Grade	Maint. Qty.	Maint. Code
Deck Debris	G, F, P, or C	F	7782	3376
Drainage System	G, F, P, or C	G	0	3332
Utilities	G, F, P, or C			
Slope Protection	G, F, P, or C	G	0	3352
Scour	G, F, P, or C			
Wingwall	G, F, P, or C	G	0	3350
Field Scour Evaluation				
Drift	G, F, P, or C		0	3366
Fender System	G, F, P, or C		0	3364
Movable Span Machinery	G, F, P, or C			
Response to Live Load	G, F, P, or C	G		
Estimated Remaining Life	0 - 100 Years	10		
Superstructure Paint Code		ı		

Note: If NC SMU Insepction Item is not present, leave NC SMU item blank

#### **Inspection Information**

Item	Grade Scale	Grade
Sign Noticed Issued	YES/NO	N
Priority Maintenance Request Submitted	YES/NO	Υ
Inspection Time	Hours	4
Traffic Control Time	Hours	0
Snooper Time	Hours	0
Ladder Used	YES/NO	Υ
Bucket Truck Used	YES/NO	N
Boat Used	YES/NO	N
Other Equipment Used	YES/NO	N

# National Bridge and NC SMU Inspection Item Details

Structure Number: 630221 Inspection Date: 09/19/2018

Item Deck Debris Grade F Maint Code 3376 Qty. 7782

Details 18" X 3" DEEP OF GRAVEL AND DEBRIS ALONG FULL LENGTH OF BOTH CURBS.

Item General Comments and Misc Items Grade F Maint Code Qty. 0

Details 8' OF IMPACT DAMAGE TO NORTHEAST GUARDRAIL.



Deck Debris: 18" X 3" DEEP OF GRAVEL AND DEBRIS ALONG FULL LENGTH OF BOTH CURBS.



Span 1 Deck: (2) 1 FT DIAMETER ASPHALTIC PATCHES, AT CENTERLINE, 10 FEET FROM END BENT 1.



Span 1 Deck: 40 FT X 3 FT SOUND ASPHALTIC PATCH ALONG SOUTHERN PORTION OF EASTBOUND TRAVEL LANE.



Span 1 Deck: 4' X 18" X 2" DEEP SPALL WITH EXPOSED REINFORCING, CENTER OF EAST BOUND LANE, NEAR MIDSPAN. (PM)



Expansion Joint, Bent 1: 6' OF COMPLETE LOSS OF ADHESION AT RANDOM ALONG JOINT.



Span 2 Deck: 350 SQ FT AREA OF SOUND AND UNSOUND PATCHES THROUGHOUT EASTBOUND LANE.



Expansion Joint, Bent 3:18" X 5" DELAMINATION, ALONG SPAN 4 HEADER, NEAR SOUTH CURB.



General Comments and Misc. Items: 8' OF IMPACT DAMAGE TO NORTHEAST GUARDRAIL.



End Bent 1 Cap 1: 20 FT HORIZONTAL CRACK UP TO 1/8 IN, BETWEEN BEAMS 1 THROUGH 4.



Bent 1 Cap 1: 30" X 2' SOUND PATCHED AREA, WEST FACE BELOW BEAM 3.



Bent 1 Cap 1: 15" X 7'X 3" SPALL, EAST FACE OF SPAN 1 BEAM 2 SEAT. NO LOSS OF BEARING AREA.



Bent 1 Cap 1: 20" X 6" DELAMINATION, EAST FACE OF SPAN 1 BEAM 3 SEAT.



Bent 3 Cap 1: 2 FT X 6 IN SPALL WITH EXPOSED REINFORCEMENT ON UNDERSIDE OF RIGHT END OF CAP.



Bent 4 Cap 1: 3 FT X 3 FT AREA OF SPALLING AND DELAMINATION, SOUTH FACE OF BENT CAP.



End Bent 5 Cap 1: 5 FT HORIZONTAL CRACK UP TO 1/8 IN, BELOW BAY 3.

Structure: 630221 County: NASH Date: 09/19/2018 Structure Photos



LOOKING EAST



WEST APPROACH, LOOKING EAST

Structure: 630221 County: NASH Date: 09/19/2018 Structure Photos



EAST APPROACH, LOOKING WEST



CONCRETE BRIDGE DECK, SPAN 1, LOOKING EAST



NORTH BRIDGE RAIL



SOUTH BRIDGE RAIL



NORTHWEST GUARDRAIL ATTACHMENT



SOUTHWEST GUARDRAIL ATTACHMENT



NORTHWEST GUARDRAIL



SOUTHWEST GUARDRAIL



NORTHWEST GUARDRAIL TERMINAL



SOUTHWEST GUARDRAIL TERMINAL



ROADWAY VIEW FROM BRIDGE DECK, LOOKING NORTH



ROADWAY VIEW FROM BRIDGE DECK, LOOKING SOUTH



NORTHEAST GUARDRAIL ATTACHMENT



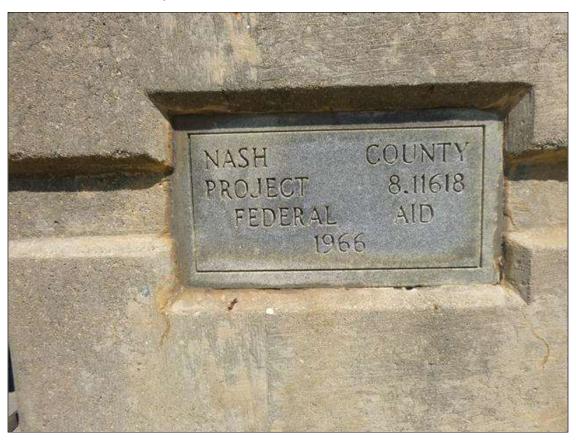
SOUTHEAST GUARDRAIL ATTACHMENT



NORTHEAST GUARDRAIL



SOUTHEAST GUARDRAIL



**BRIDGE PLAQUE** 



CRACK OVER END BENT 1, LOOKING NORTH



JOINT OVER BENT 1, LOOKING NORTH



JOINT OVER BENT 2, LOOKING NORTH



JOINT OVER BENT 3, LOOKING NORTH



JOINT OVER BENT 4, LOOKING NORTH



CRACK OVER END BENT 2, LOOKING NORTH



SOUTHWEST WINGWALL



NORTHWEST WINGWALL



END BENT 1 ELEVATION, LOOKING WEST



END BENT 1 SLOPE PROTECTION, LOOKING WEST



BENT 1 ELEVATION, LOOKING EAST



BENT 2 ELEVATION, LOOKING EAST



INTERMEDIATE DIAPHRAGM, SPAN 1, AT 1/2 POINT, LOOKING EAST



END DIAPHRAGM, BENT 1, BAY 2, LOOKING EAST



BEARING ASSEMBLY, END BENT 1, BEAM 2, LOOKING WEST



BEARING ASSEMBLY OVER BENT 1, BEAM 2, LOOKING SOUTH



SPAN 2 CLEARANCE, LOOKING SOUTH



NORTH PROFILE, LOOKING SOUTH



SUPERSTRUCTURE UNDERSIDE, SPAN 2, LOOKING EAST



BENT 3 ELEVATION, LOOKING EAST



BENT 4 ELEVATION, LOOKING EAST



SPAN 4 CLEARANCE, LOOKING NORTH



SOUTH PROFILE, LOOKING NORTH



END BENT 2 SLOPE PROTECTION, LOOKING EAST



END BENT 2 ELEVATION, LOOKING EAST



SOUTHEAST WINGWALL

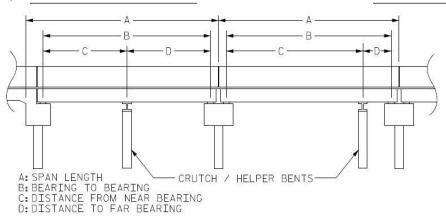


NORTHEAST WINGWALL

#### **Structure Data Worksheet**

#### **Span Profile**





Span Number	Span Length	Bearing to Bearing	Crutch/ Helper Bent	Distance to Near Bearing	Distance to Far Bearing
1	53.667	51.750			
2	71.583	70.417			
3	66.083	64.916			
4	80.583	79.417			
5	50.500	48.583			

#### NATIONAL BRIDGE INVENTORY------ STRUCTURE INVENTORY AND APPRAISAL Run Date: 12/14/2018

(8) STRUCTURE NUMBER(FEDERAL) 000000001270221 STATUS = Functionally Obsolete (5) INVENTORY ROUTE (ONUNDER) - ON 31015440 (2) STATE HIGHWAY DEPARTMENT DISTRICT 2 (3) COUNTY CODE 127 (4) PLACE CODE 0 (112)NBIS BRIDGE SYSTEM - (104)HIGHWAY SYSTEM Is not on NHS	72.41  ODE YES 0 08 0 N 2 0 3 01 01 5
(2) STATE HIGHWAY DEPARTMENT DISTRICT 2 (2) STATE HIGHWAY DEPARTMENT DISTRICT 2 (3) COUNTY CODE 127 (4) PLACE CODE 0 (6) FEATURE INTERSECTED 195 (1104)HIGHWAY SYSTEM 16 not on NHS (7) FACILITY CARRIED SR1544 (26) FUNCTIONAL CLASS - Minor Collector (27) CARRIED SR1544 (27) CARRIED SR154	YES 0 08 0 N 2 0 3 01 01 5
(3) STATE HIGHWAY DEPARTMENT DISTRICT (3) COUNTY CODE (3) COUNTY CODE (4) PLACE CODE (5) FEATURE INTERSECTED 195 (6) FEATURE INTERSECTED 195 (7) FACILITY CARRIED SR1544 (9) LOCATION 0.2 MI.W. NC48 (10) STRAINET HIGHWAY - Not a STRAINET Route (10) STRAINET HIGHWAY -	YES 0 08 0 N 2 0 3 01 01 5
(3) COUNTY CODE 127 (4) PLACE CODE 10 (112)NBIS BRIDGE SYSTEM - (104)HIGHWAY SYSTEM IS not on NHS (104)HIGHWAY SYSTEM IS not on NHS (104)HIGHWAY SYSTEM IS not on NHS (105) FUNCTIONAL CLASS - Minor Collector (100)STRAHNET HIGHWAY - Not a STRAHNET Route (110)BERRAH HIGHWAY - Not a STRAHNET Route (110)BERRAH HIGHWAY - Not a STRAHNET Route (110)BERRAH HIGHWAY - Not a STRAHNET Route (101)PARALLEL STRUCTURE - No Parallel Structure (102)BIRCETION OF TRAFFIC - 2 way Traffic (103)BERRAH HIGHWAY - Not a STRAHNET Route (101)PARALLEL STRUCTURE - No Parallel Structure (102)BIRCETION OF TRAFFIC - 2 way Traffic (103)BERRAH HIGHWAY - Not a STRAHNET Route (101)PARALLEL STRUCTURE - No Parallel Structure (103)BERRAH HIGHWAY - Not on the National Network (20) TOLL On Free Road (21) TOLL On Free Road (22) OVINER - State Highway Agency (23) TOLL ON FREE ROAD (24) STRUCTURE TYPE APPR:  TYPE - Stringer Mullibeam or Girder CODE 0000 CONDITION CODE (45) NUMBER OF SPANS IN MAIN UNIT (5 (85) DECK (66) SUPERSTRUCTURE (66) SUPERSTRUCTURE (66) SUPERSTRUCTURE (66) SUPERSTRUCTURE (67) SUPERSTRUCTURE (67) SUPERSTRUCTURE (67) SUPERSTRUCTURE (67) SUPERSTRUCTURE (67) CODE (67) PROFECTION - None CODE (67) PROFECTION - None CODE (67) PROFECTION - None CODE (67) SUPERSTRUCTURE (68) SUPERSTRUCTURE (68) INVENTORY RATING METHOD - Load Factor (68) INVENTORY RATING - HS-18 (70) BRIDGE POSITING - No Posting Required (41) STRUCTURE OPEN, POSTED, OR CLOSED DESCRIPTION - Open, No Restriction DESCRIPTION - Open, No Restriction (68) INVENTORY RATING - HS-18 (70) BRIDGE POSITING - NOPOSITION - CODE (70) BRIDGE POSITING - NOPOSITION - COD	YES 0 08 0 N 2 0 3 01 01 5
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(44) STRUCTURE TYPE APPR:	DDE
(45) NUMBER OF SPANS IN MAIN UNIT  (46) NUMBER OF APPROACH SPANS  (107) DECK STRUCTURE TYPE - 1  (108) WEARING SURFACE / PROTECTIVE SYSTEM:  (A) TYPE OF WEARING SURFACE - Concrete  (B) TYPE OF MEMBRANE - None  (C) TYPE OF DECK PROTECTION - None  (E) JUNEATING AND POSTING - Load Factor  (E) JUNEATING RATING METHOD - Load Factor  (E) JUNEATING RATING METHOD - Load Factor  (E) JUNEATING RATING - HS-30  (E) JUNEATING RATING METHOD - Load Factor  (E) JUNEATING RATING - HS-30  (E) JUNEATING RATING METHOD - Load Factor  (E)	DDE
(45) NUMBER OF SPANS IN MAIN UNIT  (46) NUMBER OF APPROACH SPANS  (107) DECK STRUCTURE TYPE - 1  (108) WEARING SURFACE / PROTECTIVE SYSTEM:  (A) TYPE OF WEARING SURFACE - Concrete  (B) TYPE OF MEMBRANE - None  (C) TYPE OF DECK PROTECTION - None  (E) OPERATING RATING METHOD - Load Factor  (E) OPERATING RATING METHOD - Load Factor  (E) OPERATING RATING - HS-30  (E) INVENTORY RATING - HS-18  (TO) BRIDGE POSTING - No Posting Required  (T) BRIDGE POSTING - No Posting Required  (T) BRIDGE POSTING - NO POSTING	
(46) NUMBER OF APPROACH SPANS (107) DECK STRUCTURE TYPE - 1 (108) WEARING SURFACE / PROTECTIVE SYSTEM: (A) TYPE OF WEARING SURFACE - Concrete (B) TYPE OF MEMBRANE - None (C) TYPE OF DECK PROTECTION - None (C) TYPE OF DECK PROT	5
(107)DECK STRUCTURE TYPE - 1 (108)WEARING SURFACE / PROTECTIVE SYSTEM : (A) TYPE OF WEARING SURFACE - Concrete (B) TYPE OF MEMBRANE - None (C) TYPE OF DECK PROTECTION (C) TYPE O	6
(108)WEARING SURFACE / PROTECTIVE SYSTEM: (A) TYPE OF WEARING SURFACE - Concrete (B) TYPE OF MEMBRANE - None (C) TYPE OF DECK PROTECTION - None  CODE (C) TYPE OF DECK PROTECTION - None  CODE (27) YEAR BUILT (106)YEAR RECONSTRUCTED (42) TYPE OF SERVICE: ON - Overpass - Interchange UNDER - Highway (28) LANES: ON STRUCTURE (29) AVERAGE DAILY TRAFFIC (30) YEAR OF ADT 2013 (109) TRUCK ADT PCT (61) CHANNEL & CHANNEL PROTECTION (62) CULVERTS  LOAD RATING AND POSTING — CO (62) CULVERTS  (63) OPERATING RATING METHOD - Load Factor (64) OPERATING RATING METHOD - Load Factor (66) INVENTORY RATING - HS-18 (70) BRIDGE POSTING - No Posting Required (41) STRUCTURE OPEN, POSTED, OR CLOSED DESCRIPTION - Open, No Restriction  APPRAISAL CC (67) STRUCTURAL EVALUATION (68) DECK GEOMETRY (69) UNDERCLEARANCES, VERTI & HORIZ	6
(A) TYPE OF WEARING SURFACE - Concrete  (B) TYPE OF MEMBRANE - None  (C) TYPE OF DECK PROTECTION - None  CODE  (C) TYPE OF DECK PROTECTION - None  CODE  (27) YEAR BUILT  (106) YEAR RECONSTRUCTED  (42) TYPE OF SERVICE : ON - Overpass - Interchange  UNDER - Highway  (28) LANES: ON STRUCTURE  (29) AVERAGE DAILY TRAFFIC  (30) YEAR OF ADT  (30) TRUCK ADT PCT  (62) CULVERTS  (62) CULVERTS  (63) DESIGN LOAD  H 15  (63) OPERATING RATING METHOD - Load Factor  (64) OPERATING RATING - HS-30  (65) INVENTORY RATING METHOD - Load Factor  (66) INVENTORY RATING - HS-18  (70) BRIDGE POSTING - No Posting Required  (41) STRUCTURE OPEN, POSTED, OR CLOSED  DESCRIPTION - Open, No Restriction  APPRAISAL  COME  (67) STRUCTURAL EVALUATION  (19) BYPASS OR DETOUR LENGTH  5 MI  (68) DECK GEOMETRY  (69) UNDERCLEARANCES, VERTI & HORIZ	N
(B) TYPE OF MEMBRANE - None CODE 0 (C) TYPE OF DECK PROTECTION - None CODE 0 (C) TYPE OF DECK PROTECTION - None CODE 0 (31) DESIGN LOAD H 15 (63) OPERATING METHOD - Load Factor (64) OPERATING RATING METHOD - Load Factor (64) OPERATING RATING METHOD - Load Factor (66) INVENTORY RATING METHOD - Load Factor (66) INVENTORY RATING METHOD - Load Factor (66) INVENTORY RATING - HS-18 (42) TYPE OF SERVICE : ON - Overpass - Interchange UNDER - Highway CODE 61 (41) STRUCTURE OPEN, POSTED, OR CLOSED (28) LANES: ON STRUCTURE 2 UNDER STRUCTURE 5 DESCRIPTION - Open, No Restriction (29) AVERAGE DAILY TRAFFIC 1300 (30) YEAR OF ADT 2013 (109) TRUCK ADT PCT 6% (67) STRUCTURAL EVALUATION (68) DECK GEOMETRY (69) UNDERCLEARANCES, VERTI & HORIZ	N
(C) TYPE OF DECK PROTECTION - None  CODE  (31) DESIGN LOAD H 15  (63) OPERATING RATING METHOD - Load Factor  (64) OPERATING RATING METHOD - Load Factor  (64) OPERATING RATING METHOD - Load Factor  (65) INVENTORY RATING METHOD - Load Factor  (66) INVENTORY RATING METHOD - Load Factor  (66) INVENTORY RATING METHOD - Load Factor  (66) INVENTORY RATING - HS-18  (70) BRIDGE POSTING - No Posting Required  (70) BRIDGE POSTING - NO PO	.n.
(27) YEAR BUILT (27) YEAR RECONSTRUCTED (42) TYPE OF SERVICE: ON - Overpass - Interchange UNDER - Highway (28) LANES: ON STRUCTURE (29) AVERAGE DAILY TRAFFIC (30) YEAR OF ADT 2013 (109) TRUCK ADT PCT (64) OPERATING RATING - HS-30 (65) INVENTORY RATING METHOD - Load Factor (66) INVENTORY RATING - HS-18 (70) BRIDGE POSTING - No Posting Required (41) STRUCTURE OPEN, POSTED, OR CLOSED DESCRIPTION - Open, No Restriction (29) AVERAGE DAILY TRAFFIC (30) YEAR OF ADT 2013 (109) TRUCK ADT PCT (68) DECK GEOMETRY (69) UNDERCLEARANCES, VERTI & HORIZ	י <b>שטע</b> 2
AGE AND SERVICE  (27) YEAR BUILT  (106)YEAR RECONSTRUCTED  (42) TYPE OF SERVICE : ON - Overpass - Interchange  UNDER - Highway  (28) LANES: ON STRUCTURE  (29) AVERAGE DAILY TRAFFIC  (30) YEAR OF ADT  (30) YEAR OF ADT  GEOMETRIC DATA  (64) OPERATING RATING - HS-30  (65) INVENTORY RATING METHOD - Load Factor  (66) INVENTORY RATING - HS-18  (70) BRIDGE POSTING - No Posting Required  (41) STRUCTURE OPEN, POSTED, OR CLOSED  DESCRIPTION - Open, No Restriction  APPRAISAL  CO  (67) STRUCTURAL EVALUATION  (68) DECK GEOMETRY  (69) UNDERCLEARANCES, VERTI & HORIZ	1
(27) YEAR BUILT (106)YEAR RECONSTRUCTED (42) TYPE OF SERVICE : ON - Overpass - Interchange UNDER - Highway CODE 61 (28) LANES: ON STRUCTURE (29) AVERAGE DAILY TRAFFIC (30) YEAR OF ADT 2013 (109) TRUCK ADT PCT (66) INVENTORY RATING METHOD - Load Factor (66) INVENTORY RATING - HS-18 (70) BRIDGE POSTING - No Posting Required (41) STRUCTURE OPEN, POSTED, OR CLOSED DESCRIPTION - Open, No Restriction APPRAISAL CO (67) STRUCTURAL EVALUATION (68) DECK GEOMETRY (69) UNDERCLEARANCES, VERTI & HORIZ	
(106)YEAR RECONSTRUCTED (42) TYPE OF SERVICE : ON - Overpass - Interchange UNDER - Highway CODE 61 (28) LANES: ON STRUCTURE (29) AVERAGE DAILY TRAFFIC (30) YEAR OF ADT 2013 (109) TRUCK ADT PCT (19) BYPASS OR DETOUR LENGTH (66) INVENTORY RATING METHOD - Load Factor (67) BRIDGE POSTING - No Posting Required (41) STRUCTURE OPEN, POSTED, OR CLOSED DESCRIPTION - Open, No Restriction APPRAISAL CO (67) STRUCTURAL EVALUATION (68) DECK GEOMETRY (69) UNDERCLEARANCES, VERTI & HORIZ	54 1
(42) TYPE OF SERVICE : ON - Overpass - Interchange  UNDER - Highway  (28) LANES: ON STRUCTURE  (29) AVERAGE DAILY TRAFFIC  (30) YEAR OF ADT  (30) YEAR OF ADT  (30) BYPASS OR DETOUR LENGTH  (42) TYPE OF SERVICE : ON - Overpass - Interchange  (70) BRIDGE POSTING - No Posting Required  (41) STRUCTURE OPEN, POSTED, OR CLOSED  DESCRIPTION - Open, No Restriction  APPRAISAL  (67) STRUCTURAL EVALUATION  (68) DECK GEOMETRY  (69) UNDERCLEARANCES, VERTI & HORIZ	
UNDER - Highway  (28) LANES: ON STRUCTURE  2 UNDER STRUCTURE  5 DESCRIPTION - Open, No Restriction  (29) AVERAGE DAILY TRAFFIC  (30) YEAR OF ADT 2013  (109) TRUCK ADT PCT  (68) DECK GEOMETRY  (69) UNDERCLEARANCES, VERTI & HORIZ	32
(28) LANES: ON STRUCTURE 2 UNDER STRUCTURE 5 DESCRIPTION - Open, No Restriction (29) AVERAGE DAILY TRAFFIC 1300 APPRAISAL C( (30) YEAR OF ADT 2013 (109) TRUCK ADT PCT 6% (67) STRUCTURAL EVALUATION (19) BYPASS OR DETOUR LENGTH 5 MI (68) DECK GEOMETRY  GEOMETRIC DATA (69) UNDERCLEARANCES, VERTI & HORIZ	5
(29) AVERAGE DAILY TRAFFIC  (30) YEAR OF ADT 2013 (109) TRUCK ADT PCT 6% (67) STRUCTURAL EVALUATION  (19) BYPASS OR DETOUR LENGTH 5 MI (68) DECK GEOMETRY  GEOMETRIC DATA (69) UNDERCLEARANCES, VERTI & HORIZ	A
(30) YEAR OF ADT 2013 (109) TRUCK ADT PCT 6% (67) STRUCTURAL EVALUATION  (19) BYPASS OR DETOUR LENGTH 5 MI (68) DECK GEOMETRY  GEOMETRIC DATA (69) UNDERCLEARANCES, VERTI & HORIZ	ODE
(19) BYPASS OR DETOUR LENGTH 5 MI (68) DECK GEOMETRY  GEOMETRIC DATA (69) UNDERCLEARANCES, VERTI & HORIZ	6
GEOMETRIC DATA (69) UNDERCLEARANCES, VERTI & HORIZ	4
	3
	N
(49) STRUCTURE LENGTH 322 FT (72) APPROACH ROADWAY ALIGNMENT	8
(50)CURB OR SIDEWALK: LEFT 1.083 FT RIGHT 1.083 FT (36) TRAFFIC SAFETY FEATURES	0000
(51) BRIDGE ROADWAY WIDTH CURB TO CURB 24.167 FT (113)SCOUR CRITICAL BRIDGES	N
(C) DECK WIDTH OUT TO OUT	
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)  26.833 F1  PROPOSED IMPROVEMENTS  CODE	
(22) PRIDGE MEDIAN. No Median.	
(70) CKEW 200 (AC) CTRUCTURE ELABED	
(40) INIVENTORY POLITE MINIVERT OF FAR	
(10) INVENTORY ROUTE MIN VERT CLEAR 999.9 FT (95) ROADWAY IMPROVEMENT COST (47) INVENTORY ROUTE TOTAL HORIZ CLEAR 24.167 FT (96) TOTAL PROJECT COST	
(SO) MIN VEDT OF AD OVED DDIRECT DDIAN	
(A) MINIVED LINDED LEAD DEE Highway 17,000 ET	2025
(55) MIN LAT UNDERCLEAR RT REF Highway  7.5 FT  (114) FUTURE ADT 2600 (115) YEAR FUTURE ADT	2025
(56) MIN LAT UNDERCLEAR LT REF - 26.5 FT INSPECTIONS	
	9/2018
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: 630221 County: NASH Run Date:

				rtical		J			Ç			Traffic	rance	5	See Note	e 1					Route
- 12	Span Number	Feature Intersected	Inventory Route	Minimum Maximum Ve Clearance	Milepoint	Base Highway Network	LRS Inventory Route	Toll	Functional Classification	Numer of Lanes	Average Daily Traffic	Year of Average Daily	Total Horizontal Cleara	Reference Feature	Minimum Vertical Underclearance	Right Lateral Underclearance	Left Lateral Underclearance	Underclearance Appraisal Grade		Direction of Traffic	Highway System of
		6	5	10	11	12	13	20	26	28	29	30	47	54A	54	55	56	69	100	102	104
2	2	I95S	11000950	16.58		1	10095		1	2	18000	2013	44.08	Н	16.25	8.5	22.42	9	1	1	1
4	1	I 95 NBL	11000950	17.33		1	10095		1	3	18000	2013	55.92	Н	17.08	7.5	26.5	9	1	1	1

#### **BRIDGE MANAGEMENT UNIT**

DATA ON EXISTING STRUCTURE Run Date: 12/14/2018

CITY:

5

**UNDER** 

COUNTY: **DIVISION:** DISTRICT: STRUCTURE NUMBER: LENGTH:

322 NASH 4 630221 FEET

ROUTE CARRIED: FEATURE INTERSECTED:

SR1544 195

BRIDGE NAME: LOCATED: 0.2 MI.W. NC48

FUNC. CLASS: SYST.ON: SYST.UNDER: ADT & YR: RAIL TYPE:

NFA NFA 1300 2013 LT 109 RT 109

BUILT: BY: PROJ: FED.AID PROJ: **DESIGN LOAD:** 

SHC 1966 8.11618 H 15

REHAB: BY: PROJ: ALIGNMENT: SKEW: LANES:

RT. 123 2 ON

HT. CRN. TO BED: WATER DEPTH:

**NAVIGATION:** 

0 0 HC 0 FT FT VC FT FT

SUPERSTRUCTURE: RC FLOOR/I-BEAMS

SUBSTRUCTURE: E.BTS:RC CAPS/PPC PILES;INT.BTS:RCP&B/PILE FTGS.

SPANS: 1@53'-8";1@71'-7",1@66'-10";1@80'-7";1@50'-6"

**BEAMS OR GIRDERS:** 4 LINES VARIOUS SIZED I-BEAMS @ 7'-0" CTS.

FLOOR: **ENCROACHMENT:** DECK (OUT TO OUT):

7" RC/NO AWS 28.833 FT

CLEAR ROADWAY: BETWEEN RAILS: SIDEWALK OR CURB:

24.167 FT 26.333 FT LT 1.083 RT 1.083

> FT FΤ

VERT.CL.OVER:

999.9 FT

OPE.RTG.: INV.RTG.: CONTR.MEMBER: POSTED: HS-18 HS-30 int.bmA SV **TTST** DATE 04/05/1990

SYSTEM: **GREEN LINE ROUTE:** 

Primary S.R. Route Ν

#### UNDER ROUTES AND CLEARANCES

		Vertical C	learances	Horizontal Clearances				
Span	Route Description	MMVC	MVC	Total	Left	Right		
2	I95S	16.5830	16.25	44.0830	22.4170	8.50		
4	I 95 NBL	17.3330	17.0830	55.9170	26.50	7.50		

Note: All measurements are in feet.

REMARKS:

County NASH Bridge: 630221 Date: 09/19/2018

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

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
3326	Maintain Concrete Deck	SF	8	Span 1 Deck: 4' X 18" X 2" DEEP SPALL WITH EXPOSED REINFORCING, CENTER OF EAST BOUND LANE, NEAR MIDSPAN.	
3326	Maintain Concrete Deck	SF	1	Span 4 Deck: 18 IN X 6 IN DELAMINATION ON LEFT OVERHANG, 40 FT FROM BENT 3, OVER MIDDLE LANE.	
3334	Bridge Bearings	EA	1	Span 1 Beam 3 Far Bearing: BROKEN OFF ANCHOR BOLT.	
3348	Maintain Concrete Substructure Components	LF	2	Bent 1 Cap 1: 20" X 7" X 3" DEEP SPALL WITH EXPOSED ANCHOR NAIL FROM PREVIOUS REPAIR, EAST FACE OF SPAN 1 BEAM 3 SEAT, WITH 13" X 1" LOSS OF BEARING AREA.	
3348	Maintain Concrete Substructure Components	LF	2	Bent 1 Cap 1: 14" X 6" X 2" DEEP SPALL, EAST FACE OF SPAN 1 BEAM 2 SEAT, WITH 6" X 1/2" LOSS OF BEARING AREA.	
3326	Maintain Concrete Deck	SF	4	Span 4 Deck: 2 FT X 2 FT DELAMINATED PATCHED AREA, LEFT OVERHANG, 25 FT FROM BENT 3.	
3326	Maintain Concrete Deck	SF	1	Span 4 Deck: 1 FT X 6 IN DELAMINATION ON LEFT OVERHANG, 30 FT FROM BENT 3 OVER LEFT LANE.	



Bridge: 630221 County NASH

MMS Code	MMS De	escrip	otion		Quantity					
3326	Maintain	Cond	crete Deck		8	SF				
Location:										
Bent/Span No.										
Priority Level Status										
Priority Maintenance			Division Bridge Maintenance Noti	fication						
Submitted D	ate: Sub	mitte	d By:	Assisted By:						
09/19/2018	MIC	CHAE	EL R. MEYER							
Details										
	Span 1 Deck: 4' X 18" X 2" DEEP SPALL WITH EXPOSED REINFORCING, CENTER OF EAST BOUND LANE, NEAR MIDSPAN.									

MMS Code	MN	/IS Descrip	otion		Quantity				
3326	Maii	ntain Cond	crete Deck		1	SF			
Location:									
Bent/Span No.									
Priority Leve	l		Status						
Priority Maintenance			Division Bridge Maintenance Noti	fication					
Submitted D	ate:	Submitte	d By:	Assisted By:					
11/08/2018		MICHAE	EL R. MEYER						
Details									
Span 4 Deck	Span 4 Deck: 18 IN X 6 IN DELAMINATION ON LEFT OVERHANG, 40 FT FROM BENT 3, OVER MIDDLE LANE.								

Bridge: 630221 County NASH

MMS Code	MM	IS Descrip	otion		Quantity				
3334	Brido	ge Bearin	gs		1	EA			
Location:									
Bent/Span No.									
Priority Leve	I		Status						
Priority Maintenance			Division Bridge Maintenance Notif	ication					
Submitted Da	ate:	Submitte	d By:	Assisted By:					
11/08/2018		MICHAE	EL R. MEYER						
Details									
Span 1 Bear	n 3 Fa	r Bearing:	BROKEN OFF ANCHOR BOLT.						

MMS Code	MN	//S Descrip	otion		Quantity			
3348	Mai	ntain Cond	crete Substructure Components		2	LF		
Location:								
Bent/Span No.								
Priority Level Status								
Priority Main	ntenan	ce	Division Bridge Maintenance Noti	fication				
Submitted D	ate:	Submitte	d By:	Assisted By:				
11/08/2018		MICHAE	EL R. MEYER					
Details								
Bent 1 Cap 1: 20" X 7" X 3" DEEP SPALL WITH EXPOSED ANCHOR NAIL FROM PREVIOUS REPAIR, EAST FACE OF SPAN 1 BEAM 3 SEAT, WITH 13" X 1" LOSS OF BEARING AREA.								

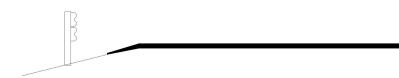
Bridge: 630221 County NASH

MMS Code	MM	IS Descrip	otion		Quantity					
3348	Main	ntain Cond	crete Substructure Components		2	LF				
Location:										
	Bent/Span No.									
Priority Leve										
Priority Maintenance			Division Bridge Maintenance Noti	fication						
Submitted D	ate:	Submitte	d By:	Assisted By:						
11/08/2018		MICHAE	EL R. MEYER							
Details										
	Bent 1 Cap 1: 14" X 6" X 2" DEEP SPALL, EAST FACE OF SPAN 1 BEAM 2 SEAT, WITH 6" X 1/2" LOSS OF BEARING AREA.									

MMS Code	MIN	/IS Descrip	tion		Quantity				
3326	Mai	ntain Cond	crete Deck		4	SF			
Location:									
Bent/Span No.									
Priority Leve	el		Status						
Recommended			Routine Maintenance						
Submitted D	ate:	Submitte	d By:	Assisted By:					
11/08/2018		MICHAE	EL R. MEYER						
Details									
Span 4 Dec	Span 4 Deck: 2 FT X 2 FT DELAMINATED PATCHED AREA, LEFT OVERHANG, 25 FT FROM BENT 3.								

Bridge: 630221 County NASH

MMS Code	MM	IS Descrip	otion		Quantity					
3326	Main	ntain Cond	crete Deck		1	SF				
Location:										
	Bent/Span No.									
Priority Leve	el									
Recommended			Routine Maintenance	Routine Maintenance						
Submitted D	ate:	Submitte	d By:	Assisted By:						
11/08/2018		MICHAE	EL R. MEYER							
Details										
Span 4 Deci	к: 1 FT	X 6 IN D	ELAMINATION ON LEFT OVERHA	ANG, 30 FT FROM BENT 3 OVER LI	EFT LANE.					

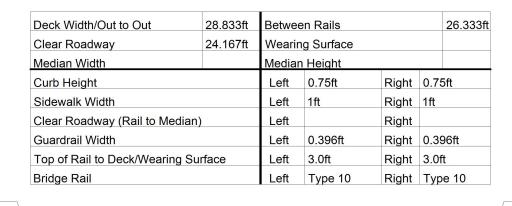


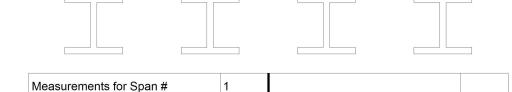
#### MEASURED 20 FT WEST OF END BENT 1

Roadway	22ft Wide	2 Paved Lanes	Looking East
Left Shoulder	5.5ft Wide	1.5ft Paved	4ft Unpaved
Right Shoulder	4ft Wide	1ft Paved	3ft Unpaved
Left Guardrail	3.5ft from road		
Right Guardrail	2ft from road		

VERIFIED BY MRM, 9/19/2018

Title		Descri	ption			
APPROACH ROADWAY			APPROACH ROADWAY			
Bridge No: 630221	Drawn By: VMH		Date: 10/02/2008	File Name:S0026002771		



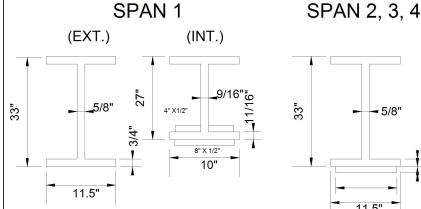


.583

6.146

Beam Number	Beam Type	Spacing	Comments
1	Steel I Beam	7.000ft	SPNS 1
2	Steel I Beam	7.000ft	
3	Steel I Beam	7.000ft	

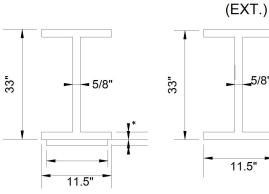
# 4 Steel I Beam



SPAN 1

**Deck Thickness** 

Top of Rail to Bottom of Beam



Left Overhang

Right Overhang

3.916

3.916

SPAN 5

27"

.5/8"

(INT.)

10"

9/16

\* 3/4 IN SPAN 3, 13/16" IN 2 & 4

#### MODIFIED BY MRM, 9/19/2018

Title			Description			
TYPICAL SECTION		TYPICAL SECTION				
Bridge No: 630221	Drawn By: VMH		Date: 10/02/2008	File Name: S0026002772		

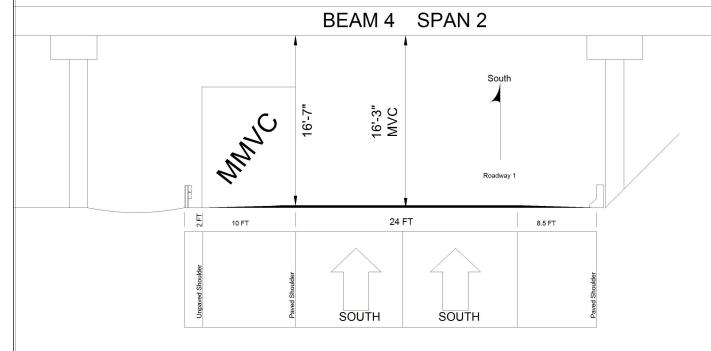
Cap Information Material Cast-in-Place Concrete												
Lengt	h Width	Height	Left Over	hang	Right Overh	ang	Left Be	eam to Er	nd of Cap.	Righ	t Beam to En	d of Cap
29.000	ft. 2.500 ft.	2.500 ft.	4.750	ft.	4.750 ft.		2.0	000 ft.		2	2.000 ft.	
Subca	p Information	Material			<u>'</u>							
Lengt	h Width	Height	Left Over	hang	Right Overh	ang	Left Pi	le to Splid	ce.			
Sill Information Material												
Lengt	h Width	Height										
Pile#	Material	Spacing	Width/Dia.	Height	Length	Orier	ntation	Driven?	Replacem	nent?	Removed?	Collar?
1	Concrete	19.5 ft.	2.5 ft.	2.5 ft.		Verti	cal	No	No		No	No
2	Concrete		2.5 ft.	2.5 ft.		Verti	cal	No	No		No	No
	l											

MODIFIED BY MRM, 9/19/2018

Bent/Abutment #: 1 Similar Bents: Bents 2, 3, 4

TitleDescriptionSUBSTRUCTUREBENT 1

Bridge No: 630221 Drawn By: VMH Date: 9/21/10 File Name: \$0022001303



Distance to Left Guardrail 11.583 FT Distance to Right Guardrail 8.5 FT Distance to Left Toe of Slope

Distance to Left Bent or Columns 22.417 FT

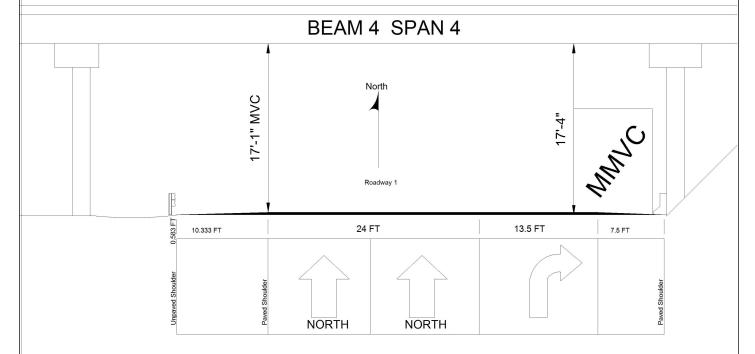
Distance to Right Toe of Slope

Distance to Right Bent or Columns 9.917 FT

Maximum Minimum Vertical Clearance 16.583 FT. Measured AT LEFT EDGE on Beam No 4 Minimum Vertical Clearance 16.25 FT. Measured AT CENTERLINE on Beam No 4

**VERIFIED BY MRM, 9/19/2018** 

Title Description SBL CLEARANCES SBL CLEARANCES Drawn By: VMH Bridge No: 630221 Date: 10/02/2008 File Name:S0026002774



Distance to Left Guardrail 10.917 FT
Distance to Right Guardrail 7.5 FT
Distance to Left Toe of Slope
Distance to Left Bent or Columns 26.5 FT
Distance to Right Toe of Slope
Distance to Right Toe of Slope
Maximum Minimum Vertical Clearance 17.333 FT. Measured 3 FT. From RIGHT EDGE on Beam No 4
Minimum Vertical Clearance 17.083 FT. Measured AT LEFT EDGE on Beam No 4

VERIFIED BY MRM, 9/19/2018

Title			Description				
NBL CLEARANCES		NBL CLEARANCES					
	Bridge No: 630221	Drawn By: VMH		Date: 9/21/10	File Name:S0026002773		

