NC DEPARTMENT OF TRANSPORTATION

ATTENTION: PRIORITY MAINTENANCE ISSUED; CHANGE TO APPROACH ROADWAY DATA



DIVISION OF HIGHWAYS

STRUCTURE MANAGEMENT UNIT

Structure Safety Report

Routine Element Inspection - Contract

INSPECTION DATE: 10/18/2018

DIVISION: 4	COUNTY:	EDGECOMBE	STRUCT	TURE NUMBER: 320035	FREQUENCY:	24 MONTHS
	SR 1616	3				
LOCATION: 1.1 MI	SE. OF US	\$ 258				
FEATURE INTERSE	CTED: OT	TER CREEK				
LATITUDE: 35° 43	' 51.73"		LONGITUDE:	77° 36' 48.67"		
SUPERSTRUCTURE	RC FLC	OOR ON I-BEAMS				
SUBSTRUCTURE: E	E.BTS & IN	T.BTS: RC CAPS/RC	PILES			
SPANS: 3 SPANS	S. SEE SP	AN PROFILE SHEET	FOR SPAN D	ETAILS		
FRACTURE CR	ITICAL			SCOUR CRITICAL	SCOUR PLAN OF	ACTION
NBI GRADES:	DECK	5 SUPERSTRUC	TURE 5	SUBSTRUCTURE 5	CULVERT N	
POSTED SV: 18				POSTED TTST: 22		

OTHER SIGNS PRESENT: 4 DELINEATORS



Structure Element Scoring

Structure Number: 320035

Inspection Date <u>10/18/201</u> <u>8</u>

Element Number	Parent Number		Location	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity
12	0	Reinforced Concrete Deck	Deck	3464	3379	84	1	0
107	0	Steel Open Girder/Beam	Beam	488	298	180	6	4
515	107	Steel Protective Coating	Beam	3900	3383	500	17	0
215	0	Reinforced Concrete Abutment	Abutments	62	60	2	0	0
226	0	Prestressed Concrete Pile	Piles and Columns	10	10	0	0	0
234	0	Reinforced Concrete Pier Cap	Caps	52	3	22	27	0
316	0	Other Bearings	Bearing Device	24	11	9	4	0
515	316	Steel Protective Coating	Bearing Device	48	22	18	6	2
331	0	Reinforced Concrete Bridge Railing	Bridge Rail	244	0	244	0	0
510	0	Wearing Surface	Wearing Surfaces	2916	2816	0	64	36

Summary of Maintenance Needs

Maintenance By Defect

Structure Number: 320035

Inspection Date: 10/18/2018

MMS Code	Element Name	Defect Name	Recommended Quantity
3326	Reinforced Concrete Deck	Delamination/Spall	1 Square Feet
3314	Steel Open Girder/Beam	Corrosion	11 Feet
3348	Reinforced Concrete Pier Cap	Cracking (RC and Other)	8 Feet
3348	Reinforced Concrete Pier Cap	Delamination/Spall	17 Feet
3334	Other Bearings	Corrosion	2 Each
3318	Reinforced Concrete Bridge Railing	Damage	244 Feet
2816	Wearing Surface	Crack (Wearing Surface)	64 Square Feet
2816	Wearing Surface	Patched Area/Pothole (Wearing Surface)	36 Square Feet
3342	Steel Protective Coating	Effectiveness (Steel Protective Coatings)	201 Square Feet

Element Structure Maintenance Quantities

Location	MMS Code	Description	Maint Quantity	Total Quantity	Severe Quantity	Poor Quantity	Fair Quantity	Good Quantit
Abutments	3350	Maintenance of Concrete Wings and Wall	0	62	0	0	2	60
Beam	3314	Maintenance Steel Superstructure Components	11	488	4	6	180	298
Beam	3342	Clean and Paint Steel	199	3900	0	17	500	3383
Bearing Device	3334	Bridge Bearing	2	24	0	4	9	11
Bearing Device	3342	Clean and Paint Steel	2	48	2	6	18	22
Bridge Rail	3318	Maintenance of Concrete Bridge Rail	244	244	0	0	244	0
Caps	3348	Maintenance of Concrete Substructure	25	52	0	27	22	3
Deck	3326	Maintenance of Concrete Deck	1	3464	0	1	84	3379
Piles and Columns	3348	Maintenance of Concrete Substructure	0	10	0	0	0	10
Wearing Surfaces	2816	Asphalt Surface Repair	100	2916	36	64	0	2816

Element Condition and Maintenance Data

Deck me k Defect Descr 1 at 10ft from bent 1, florescence (similar a n overhang at drain, t florescence (similar t	transverse crack (tat bays 2 and 3) transverse crack (fu	ull width x	CS2 Qty 34 CS 2	CS3 Qty 0 CS Qty 9	CS4 Qty 0 Maint Qty	
k Defect Descr 1 at 10ft from bent 1, florescence (similar a n overhang at drain, t	Qty 1,140 iption transverse crack (3 at bays 2 and 3) transverse crack (fu	Qty 1,106 Bft x ull width x	Qty 34 CS	Qty 0 CS Qty	Qty 0 Maint	
k Defect Descr 1 at 10ft from bent 1, florescence (similar a n overhang at drain, t	Qty 1,140 iption transverse crack (3 at bays 2 and 3) transverse crack (fu	Qty 1,106 Bft x ull width x	Qty 34 CS	Qty 0 CS Qty	Qty 0 Maint	
k Defect Descr 1 at 10ft from bent 1, florescence (similar a n overhang at drain, t	1,140 iption transverse crack (3 at bays 2 and 3) transverse crack (fu	1,106 3ft x ull width x	34 CS	0 CS Qty	0 Maint	
Defect Descr 1 at 10ft from bent 1, florescence (similar a n overhang at drain, t	iption transverse crack (3 at bays 2 and 3) transverse crack (fu	Bft x Ill width x	CS	CS Qty	Maint	
1 at 10ft from bent 1, florescence (similar a n overhang at drain, t	transverse crack (tat bays 2 and 3) transverse crack (fu	ull width x		-		
florescence (similar a n overhang at drain, t	at bays 2 and 3) transverse crack (fu	ull width x	2	۵		
n overhang at drain, t	transverse crack (fu	ull width x		3	aly	Square Feet
florescence (similar t	hroughout) (north c		2	25		Square Feet
		overhang	2	25		Square reel
Beam 1						
	Total	CS1	CS 2	CS 3	CS4	
ime	Qty	Qty	Qty	Qty	Qty	
	40	25	15	0	0	Feet
	321	276	45	0	0	Square Feet
Defect Descr	iption		CS	CS Qty	Maint	
ce rust throughout bo	oth flanges and wel	os	2	15	aly	Feet
fective.			2	45		Square Feet
Beam 2						
	Total	CS1	CS2	CS3	CS4	
ime	Qty	Qty	Qty	Qty	Qty	
	40	25	15	0	0	Feet
	321	276	45	0	0	Square Feet
Defect Descr	iption		CS	CS Qty	Maint Otv	
	-	os	2	15	Giy	Feet
-	-		2	45		Square Feet
Beam 3						
	Total	CS1	CS2	CS3	CS4	
Ime	Total Qty 40	CS1 Qty 25	CS2 Qty 15	CS3 Qty 0	Qty	
	ce rust throughout be fective. Beam 2 ume Defect Descr	40 321 Defect Description ce rust throughout both flanges and well Total Qty 40 321 Defect Description Ce rust throughout both flanges and well Total Qty 40 321 Defect Description Ce rust throughout both flanges and well	Qty Qty Qty 40 25 321 276 Defect Description ce rust throughout both flanges and webs fective. Total Qty Qty Qty Qty Mathematical State Total Qty Qty 40 25 321 276 Defect Description Defect Description Ce rust throughout both flanges and webs	Qty 40Qty 25Qty 1532127645Defect DescriptionCS 2ce rust throughout both flanges and webs fective.2Beam 2Total Qty 40CS1 Qty Qty 15CS2 Qty 15umeTotal Qty 402515 25Defect DescriptionCS1 25CS2 45Defect DescriptionCS1 27625Defect DescriptionCS 2	Qty 40Qty 25Qty 15Qty 0321276450Defect DescriptionCS 2CS Qtyce rust throughout both flanges and webs215fective.2452Total Qty 40CS1 Qty 25CS2 Qty Qty 15meTotal Qty 40CS1 25CS2 Qty 25CS3 Qty Qty 15Defect DescriptionCS Qty 25CS 2CS3 Qty Qty 25CS2 2Defect DescriptionCS 2CS Qty 22Defect DescriptionCS 2CS Qty 22	AumeQty 40Qty 25Qty 15Qty 03212764500Defect DescriptionCS 2CS Qty 15Maint Qtyce rust throughout both flanges and webs fective.2151524524500Total Qty

Elemen Numbe		Defect Description	CS	CS Qty	Maint Qty	
107	Corrosion	Scattered surface rust throughout both flanges and webs	2	15	Feet	

Structure Number: 320035

515 Effectiveness (Steel Protective Coatings)

General Comments

Substantially effective

Spa	n 1	Beam 4					
Plat	e Girder						
	nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
107	Steel Op	en Girder/Beam	40	24	15	1	0 Feet
515	Steel Pro	ptective Coating	321	273	45	3	0 Square Feet
Elemen Numbe	Defect Type	Defect Descri	ption		CS	CS Qty	Maint Qty
107	Corrosion	1' long painted over corrosion with se thickness) on outer edges (1") of bot average remaining thickness across thickness.	tom flange with 9/1	l6"	3	1	1 Feet
107	Corrosion	Scattered surface rust throughout bo	th flanges and wel	bs	2	15	Feet
515	Effectiveness (Steel Protective Coatings)	Previously cleaned and painted with	light surface rust p	present	3	3	Square Feet
515	Effectiveness (Steel Protective Coatings)	Substantially effective			2	45	Square Feet
-	General Comments						

Span 1

Wearing Surface

Asphalt Wearing Surface

Elen Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearing	Surface	960	908	0	40	12 S	quare Feet
Element Number	Defect Type	Defect Descrip	tion		CS	CS Qty	Maint Qty	
510	Patched Area/Pothole (Wearing Surface)		M12' long pothole starting at center line out in westbound avel lane over pier 1 up to 6" wide x 2" deep full width of idge. Pothole is full of gravel 1" deep.			12	12	Square Feet
510	Crack (Wearing Surface)	Eastbound travel lane and both should 2 transverse cracks up to 1/4" over pie		nt 1 have	3	16	16	Square Feet
510	Crack (Wearing Surface)	Full width transverse crack up to 1/4" v	vide over abutme	ent.	3	24	24	Square Feet

General Comments

Spa	an 1	Left Bridge I	Rail					
Co	ncrete Railing							
	ement mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331	Reinfor	ced Concrete Bridge Railing	40	0	40	0	0 Feet	
Eleme Numb	Defect Turne	Defect Descri	ption		CS	CS Qty	Maint Qty	
331	Damage	top rail and parapet, scaling with exp x full width)	osed aggregate (fu	ull length	2	40	40 Feet	

General Comments

Structure Number: 320035

Span 1

Concrete Railing

	nent nber		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331		Reinfor	ced Concrete Bridge Railing	40	0	40	0	0 Feet	
Elemen Numbe		Defect Type	Defect Descri	ption		CS	CS Qty	Maint Qty	
331	Dam	nage	top rail and parapet, scaling with exp x full width)	osed aggregate (fu	ull length	2	40	40 Feet	

Right Bridge Rail

General Comments

Spa	an 1	Far Bearing	I					
Oth	er Bearing							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other B	earings	1	-1	2	0	0	Each
515	Steel Pr	rotective Coating	2	0	2	0	0	Square Feet
Elemer Numbe	Defect Type	Defect Desc	ription		CS	CS Qty	Maint Qty	
316	Corrosion	Previously cleaned and painted with	n light surface rust p	resent	2	2	-	Each
515	Effectiveness (Steel Protective Coatings)	Substantially effective			2	2		Square Feet
	General Comments							

Spa	an 1	Far Bearin	g					
Oth	er Bearing							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other B	earings	1	0	1	0	0	Each
515	Steel Pr	otective Coating	2	0	2	0	0	Square Feet
Elemer Numbe	Defect Type	Defect Desc	cription		CS	CS Qty	Maint Qty	
316	Corrosion	Previously cleaned and painted with	th light surface rust p	resent	2	1	-	Each
515	Effectiveness (Steel Protective Coatings)	Substantially effective			2	2		Square Feet
	General Comments							

General Comments

Spa	in 1	Far Bearir	ng					
Oth	er Bearing							
	ment nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other E	Bearings	1	0	0	1	0	Each
515	Steel P	Protective Coating	2	0	0	2	0	Square Feet
Elemer Numbe	Dofact Type	Defect Des	cription		CS	CS Qty	Maint Qty	
316	Corrosion	Previously cleaned and painted, b with no additional section loss (up corroded (100%)			3	1		1 Each
515	Effectiveness (Steel Protective Coatings)	Paint failure with bare metal expo	sed		3	2		Square Feet
	General Comments							

Spa	an 2	Deck						
Rei	inforced Concrete	Deck						
	ement mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinford	ed Concrete Deck	1,155	1,130	25	0	0	Square Feet
Elemer Numbe	Defect Type	Defect De	scription		cs	CS Qty	Maint Qty	
12	Efflorescence/Rust Staining	underside south overhang at dra hairline) with efflorescence (simil similar)			2	25	-	Square Feet

General Comments

Beam 1

Plate Girder

Span 2

	ment nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel O	pen Girder/Beam	41	24	15	2	0	Feet
515	Steel P	rotective Coating	325	280	45	0	0	Square Feet
Elemer Numbe	Dofact Type	Defect Desc	cription		CS	CS Qty	Maint Qty	
107	Corrosion	web at end diaphragm on bent 1, p (recently cleaned and painted to pr	0 (,	3	1	1	Feet
107	Corrosion	web at end diaphragm on bent 2, p (recently cleaned and painted to pr			3	1	1	Feet
107	Corrosion	Scattered surface rust throughout I	both flanges and wel	bs	2	15		Feet
515	Effectiveness (Steel Protective Coatings)	Substantially effective			2	45	45	Square Feet
	General Comments							

Span 2

Beam 2

Plate Girder

	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel O	ben Girder/Beam	41	25	15	1	0	Feet
515	Steel Pr	otective Coating	325	280	45	0	0	Square Feet
Elemer Numbe	Dofact Type	Defect Des	cription		CS	CS Qty	Maint Qty	
107	Corrosion	web at end diaphragm on bent 1, loss) (recently cleaned and painte			3	1		1 Feet
107	Corrosion	Scattered surface rust throughout	both flanges and well	os	2	15		Feet
515	Effectiveness (Steel Protective Coatings)	Substantially effective			2	45		Square Feet
	General Comments							

Structure Number: 320035

Span 2

Plate	Girder
I IULO	On acr

	ment		Total	004			
107	mber Steel Op	Element Name ben Girder/Beam	Qty 41	CS1 Qty 26	CS2 Qty 15	CS3 Qty 0	CS4 Qty 0 Feet
515	Steel Pr	otective Coating	325	280	45	0	0 Square Feet
Elemer Numbe	Defect Type	Defect Desc	ription		cs	CS Qty	Maint Qty
107	Corrosion	Scattered surface rust throughout b	oth flanges and web)S	2	15	Feet
515	Effectiveness (Steel Protective Coatings)	Substantially effective			2	45	45 Square Feet
	Tiblective Coatings)						

Span 2

Beam 4

Beam 3

Plat	e Girder								
	ment nber		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107		Steel O	pen Girder/Beam	41	25	15	1	0	Feet
515		Steel P	rotective Coating	325	325	0	0	0	Square Feet
Elemen Numbe	Dofoct	Туре	Defect Des	cription		CS	CS Qty	Maint Qty	
107	Corrosion		bottom flange at bent 2, pitting (1f outer 1/2" of flange) with 11/16in a throughout (recently cleaned and	average remaining thi	ckness	3	1		1 Feet
107	Corrosion		Scattered surface rust throughout	both flanges and well	os	2	15		Feet

General Comments

Spa	an 2	Wearing Surf	face					
Asp	ohalt Wearing Sur	face						
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearin	g Surface	972	948	0	0	24 S	quare Feet
Elemen Numbe	Defect Type	Defect Descrip	otion		CS	CS Qty	Maint Qty	
510	Patched Area/Pothole (Wearing Surface)	PMFull width pothole over pier 2 up width of bridge. Pothole is full of grav		ep full	4	24	24	Square Feet
	General Comments							
	General Comments	Left Bridge R	lail					
Spa	General Comments	Left Bridge R	lail					
Spa Con Eler	General Comments	Left Bridge R Element Name	tail Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
Spa Con Eler	General Comments an 2 ncrete Railing ment mber		Total					eet
Spa Con Eler Nur	General Comments an 2 ncrete Railing ment mber Reinfor	Element Name	Total Qty 41	Qty	Qty	Qty	Qty	eet

Span 2

Concrete Railing

	ment mber		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
331		Reinfor	ced Concrete Bridge Railing	41	0	41	0	0	Feet
Elemer Numbe		Defect Type	Defect Descrip	otion		CS	CS Qty	Maint Qty	
331	Dam	nage	top rail and parapet, scaling with expo x full width)	osed aggregate (fu	ll length	2	41	41	Feet

Right Bridge Rail

General Comments

2	Far Beari	ng					
Bearing							
ent er	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
Other Be	earings	1	0	0	1	0	Each
Steel Pro	ptective Coating	2	0	0	0	2	Square Feet
Defect Type	Defect Des	scription		CS	CS Qty	Maint Qty	
Corrosion			arly 60%	3	1		Each
ffectiveness (Steel Protective Coatings)			arly 60%	4	2	:	2 Square Feet
	Bearing nt er Other Be Steel Pro Defect Type Corrosion	Bearing nt Element Name Other Bearings Steel Protective Coating Defect Type Defect Destroy Corrosion PMPreviously cleaned and pair (approximately 40%) with reactive section remaining. Effectiveness (Steel Protective Coatings) PMPreviously cleaned and pair (approximately 40%) with reactive section remaining.	Bearing Total Qty other Bearings 1 Steel Protective Coating 2 Defect Type Defect Description Corrosion PMPreviously cleaned and painted over section loss (approximately 40%) with reactivated corrosion with near section remaining. Effectiveness (Steel Protective Coatings) PMPreviously cleaned and painted over section loss (approximately 40%) with reactivated corrosion with near section remaining.	Bearing Total Qty CS1 Qty er Element Name Qty Qty Other Bearings 1 0 Steel Protective Coating 2 0 Defect Type Defect Description Corrosion PMPreviously cleaned and painted over section loss (approximately 40%) with reactivated corrosion with nearly 60% section remaining. Effectiveness (Steel Protective Coatings) PMPreviously cleaned and painted over section loss (approximately 40%) with reactivated corrosion with nearly 60%	Bearing Inter Element Name Total Qty CS1 Qty CS2 Qty Other Bearings 1 0 0 Steel Protective Coating 2 0 0 Defect Type Defect Description CS Corrosion PMPreviously cleaned and painted over section loss (approximately 40%) with reactivated corrosion with nearly 60% section remaining. 3 Effectiveness (Steel Protective Coatings) PMPreviously cleaned and painted over section loss (approximately 40%) with reactivated corrosion with nearly 60% 4	Bearing Total Qty CS1 Qty CS2 Qty Qty Qty Other Bearings 1 0 0 1 Steel Protective Coating 2 0 0 0 Defect Type Defect Description CS CS Qty Corrosion PMPreviously cleaned and painted over section loss (approximately 40%) with reactivated corrosion with nearly 60% section remaining. 3 1 Effective Coatings PMPreviously cleaned and painted over section loss (approximately 40%) with reactivated corrosion with nearly 60% 4 2	Bearing Total Qty CS1 Qty CS2 Qty Qty Qty Qty Qty

General Comments

Span 2

Near Bearing

Other Bearing

Element Number		ent Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other Bearings		1	1	0	0	0	Each
515	Steel Protective Co	ating	2	0	2	0	0	Square Feet
Element Number	Defect Type	Defect Desc	ription		CS (CS Qty	Maint Qty	

General Comments

Spa	an 2	Far Bearing	g					
Oth	er Bearing							
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other B	earings	1	0	1	0	0	Each
515	Steel Pr	otective Coating	2	0	2	0	0	Square Feet
lemer lumbe	Defect Type	Defect Desc	ription		CS	CS Qty	Maint Qty	
316	Corrosion	Previously cleaned and painted wit	h light surface rust		2	1	-	Each
515	Effectiveness (Steel Protective Coatings)	Substantially effective			2	2		Square Feet
	General Comments							

General Comments

Structure Number: 320035

Span 2

Other Bearing

nent Iber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
Other Be	earings	1	0	1	0	0 Each
Steel Pr	otective Coating	2	0	2	0	0 Square Feet
Defect Type	Defect De	scription		CS	CS Qty	Maint Qty
Corrosion	Previously cleaned and painted v	vith light surface rust		2	1	Each
Effectiveness (Steel Protective Coatings)	Substantially effective			2	2	Square Feet
	ber Other Be Steel Pr Defect Type Corrosion Effectiveness (Steel	ber Element Name Other Bearings Steel Protective Coating Defect Type Defect De Corrosion Previously cleaned and painted w Effectiveness (Steel Substantially effective	ber Element Name Qty Other Bearings 1 Steel Protective Coating 2 Defect Type Defect Description Corrosion Previously cleaned and painted with light surface rust Effectiveness (Steel Substantially effective	ber Element Name Qty Qty Other Bearings 1 0 Steel Protective Coating 2 0 Defect Type Defect Description Corrosion Previously cleaned and painted with light surface rust Effectiveness (Steel Substantially effective	ber Element Name Qty Qty Qty Other Bearings 1 0 1 Steel Protective Coating 2 0 2 Defect Type Defect Description CS Corrosion Previously cleaned and painted with light surface rust 2 Effectiveness (Steel Substantially effective 2	ber Element Name Qty Qty Qty Qty Other Bearings 1 0 1 0 Steel Protective Coating 2 0 2 0 Defect Type Defect Description CS CS Qty Corrosion Previously cleaned and painted with light surface rust 2 1 Effectiveness (Steel Substantially effective 2 2

General Comments

Span 2

Near Bearing

Other Bearing

Element Total CS1 CS2 CS3 CS4 Number **Element Name** Qty Qty Qty Qty Qty 316 Other Bearings 0 Each 0 0 1 1 515 Steel Protective Coating 2 0 0 2 0 Square Feet Element Maint **Defect Description** CS Qty **Defect Type** CS Number Qty Previously cleaned and painted, but corrosion has reactivated 316 Corrosion 3 1 Each with no additional section loss (up to 1/8") 515 Effectiveness (Steel Paint failure with bare metal exposed 3 2 Square Feet Protective Coatings)

General Comments

Span 2

Far Bearing

Other Bearing

	nent nber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other B	earings	1	0	1	0	0 Each
515	Steel Pr	otective Coating	2	0	2	0	0 Square Feet
Elemen Numbe	Defect Turne	Defect Desc	ription		CS	CS Qty	Maint Qty
316	Corrosion	Previously cleaned and painted with	n light surface rust		2	1	Each
515	Effectiveness (Steel Protective Coatings)	Substantially effective			2	2	Square Feet

General Comments

Span 3

Deck

Reinforced Concrete Deck

	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
12	Reinfor	ced Concrete Deck	1,169	1,143	25	1	0 S	quare Feet
Elemer Numbe	Dofoot Typo	Defect Des	cription		cs	CS Qty	Maint Qty	
12	Delamination/Spall	7" diameter area of delamination of pier 2	on south overhang a	t 2' from	3	1	1	Square Feet
12	Efflorescence/Rust Staining	underside south overhang at drair hairline) with efflorescence (simila similar)			2	25		Square Feet

General Comments

Span 3 Beam 1 Plate Girder Element Number Element Name Total 41 CS1 25 CS2 47 CS3 47 CS4 47 CS4 47 107 Steel Open Girder/Beam 329 279 50 0 0 Square Feet Element Number Defect Type Defect Description CS CS 0 CS 0 QY 0 QY 0 107 Corrosion web at end diaphragm on bent 2, pitting (fit x fin x 1/16in loss) (recently cleaned and painted by prevent further corrosion) 3 1 1 Feet 107 Corrosion Scattered surface rust throughout both flanges and web 2 15 Feet 116 Frontextive Coaling) Substantially effective 2 50 50 Square Feet 117 Corrosion Steel Open Girder/Beam 41 24 15 0 2 Feet 118 Element Number Element Name Total CS1 41 CS1 51 CS 40 CY 41 QY 45 QY 4											
Element Info 107Element Name Beam 41 329Total City Corrosion 	Spa	n 3		Bear	m 1						
Number 107Element Name Steel Open Girder/BeamQty 41Qty 25Qty 15Qty 15Qty 0Qty 0Pete515Steel Protective Coating3292795000Square FeetElement NumberDefect Type Tecentry leaded and painted to prevent huther corrosionCS 3CS Qty 10Maint Cart107Corrosionweb at end diaphragm on ben 2, piting (fit x 1in x 1/16in loss) treecenty cleaned and painted to prevent huther corrosion311107CorrosionScattered surface rust throughout both flanges and web25050Square Feet107CorrosionScattered surface rust throughout both flanges and web25050Square FeetProtective CoatingSub-thrite coarting3292784560Square Feet107Steel Open Girder/Beam141241502Feet15Steel Protective Coating3292784560Square Feet107Steel Open Girder/Beam121CS1CS1CS2CS3CS4107Steel Protective Coating3292784560Square Feet107Steel Protective Coating3272784560Square Feet108Defect TypeDefect DescriptionCSCS QtyMaint Cty2Feet107CorrosionPM2 long x full width x down to knife edge area of advanced an o	Plat	e Girder									
15 Stell Protective Coating322795000Square FeetImmedia Immedia To corrosion To corrosion To corrosion To corrosion To corrosion Corrosion Corrosion Corrosion To corrosion Corrosi	Nun		Steel Op			Qty	Qty	Qty	Qty	Qty	Feet
Number Defect Type Defect Description CS CS CS CS CS Cty 107 Corrosion web at end diaphragm on bent 2, pitting (1ft x in x 1/16in loss) (recently cleaned and painted to prevent further corrosion) 3 1 1 Feet 107 Corrosion Scattered surface rust throughout both flanges and web 2 15 Feet 117 Corrosion Scattered surface rust throughout both flanges and web 2 50 50 Square Feet Protective Coatings) General Comments Element Name Total Cty	515		•			329	279	50	0	0 3	Square Feet
107 Corrosion web at end diaphragm on bent 2, pitting (fft x lin x 1/16in loss) 3 1 1 Feet 107 Corrosion Scattered surface rust throughout both flanges and web 2 15 Feet 515 Effectiveness (Steel Protective Coatings) Substantially effective 2 50 50 Square Feet Total Circle Span 3 Beam 2 Plate Girder Total Circle CS1 CS2 CS3 CS4 107 Steel Open Girder/Beam 41 24 15 0 2 Feet 515 Steel Open Girder/Beam 41 24 15 0 2 Feet Element Name CS1 CS2 CS3 CS4 Qty <		Defect 7	Гуре	Def	ect Description			cs	CS Qty		
513 Effectiveness (Steel Protective Coatings) General Comments Substantially effective 2 50 50 Square Feet Span 3 Beam 2 Total Comments Total Comments Total Comments Total Cost CS1 CS2 CS3 CS4 (CS2 Total Circle Element Name Total City CS1 CS2 CS3 CS4 (CS2 Total Circle 107 Steel Open Girder/Beam 41 24 5 0 Square Feet Element Name Total City CS1 CS2 CS3 CS4 (CS Cty CS1 CS	107	Corrosion						3	1		Feet
Protective Coatings) General Comments Span 3 Beam 2 Plate Girder Element Number Element Name Total Cty CS1 CS2 CS3 CS4 Cty 107 Steel Open Girder/Beam 41 24 15 0 2 Feet 515 Steel Protective Coating 329 278 45 6 0 Square Feet Element Number Defect Type Protective Coating Steel Open Girder/Beam CS CS open Girder/Beam Maint At 2 2 Feet 107 Corrosion PH2' long x full width x down to knife edge area of advanced section toss (0.33" average thickness remaining) on bottom flange at pier 2. 1.5' long x 3/4' wide area of 100% section loss on south bottom flange at 16' from bearing. Previously cleaned and painted with rust staining reactivitated. 1 Feet 107 Corrosion web at end diaphragm on bent 2, pitting (1ft x 1in x up to 1/8in loss) (recently cleaned and painted to prevent further corrosion) 3 1 Feet 107 Corrosion Scattered surface rust throughout both flanges and web 2 15 Feet 107 Corrosion Scattered surface rust throughout both flanges and web 2 15 Square Feet 107 Corrosi	107	Corrosion		Scattered surface rust thro	oughout both flang	ges and web)	2	15		Feet
Span 3 Beam 2 Plate Girder <u>Number</u> Element Name Ordy	515		`	Substantially effective				2	50	50	Square Feet
Plate GirderLement NumberElement Name Steel Open Girder/BeamTotal 41CS1 QtyCS2 QtyCS3 QtyCS4 Qty107Steel Open Girder/Beam3292784560Square Feet515Steel Protective Coating3292784560Square FeetLement NumberDefect TypeDefect DescriptionCS RCS CS QtyMaint Qty107CorrosionPM2' long x full width x down to knife edge area of advanced section loss (0.33" average thickness remaining) on bottom flange at pier 2. 1.5" long x 3/4" wide area of 100% section loss on ad painted with rust staining reactivated.422Feet107CorrosionPM2' long x full width x down to knife edge area of 100% section loss on south bottom flange at 16" from bearing. Previously cleaned and painted with rust staining reactivated.1Feet107CorrosionScattered surface rust throughout both flanges and web215Feet107CorrosionScattered surface rust throughout both flanges and web215Feet15Effectiveness (Steel Protective Coatings)Previously cleaned and painted over section loss with reactivated corrosion (rust staining) reactivated corrosion (rust staining) <th>_</th> <th>General Comr</th> <th>nents</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>	_	General Comr	nents								
Element NumberElement Name Steel Open Girder/BeamTotal Att 	Spa	n 3		Bear	m 2						
NumberElement NameQtyQtyQtyQtyQtyQty107Steel Open Girder/Beam41241502Feet515Steel Protective Coating3292784560Square FeetElement NumberDefect TypeDefect DescriptionCSCS QtyMaint Qty107CorrosionPM2' long x full width x down to knife edge area of advanced section loss (0.33" average thickness remaining) on bottom flange at pier 2.1.5" long x 3/4" wide area of 100% section loss on south bottom flange at 16" from bearing. Previously cleaned and painted with rust staining reactivated.422Feet107CorrosionScattered surface rust throughout both flanges and web215Feet515Effectiveness (Steel Protective Coatings)Previously cleaned and painted over section loss with reactivated corrosion (rust staining)366Square Feet515Effectiveness (Steel Protective Coatings)Substantially effective245Square Feet515Effectiveness (Steel Protective Coatings)Substantially effective245Square Feet515Effectiveness (Steel Protective Coatings)Substantially effective245Square Feet515Effectiveness (Steel Protective Coatings)Substantially effective245Square Feet516Effectiveness (Steel Protective Coatings)Substantially effective245Square Feet517Effectiveness (Steel Prote	Plat	e Girder									
515Steel Protective Coating3292784560Square FeetElement NumberDefect TypeDefect DescriptionCSCSCSQtyMaint Qty107CorrosionPM2' long x full width x down to knife edge area of advanced section loss (0.33" average thickness remaining) on bottom flange at pier 2. 1.5" long x 3/4" wide area of 100% section loss on south bottom flange at 16" from bearing. Previously cleaned and painted with rust staining reactivated.CSCSQt yMaint Qty107Corrosionweb at end diaphragm on bent 2, pitting (1ft x 1in x up to 1/8in loss) (recently cleaned and painted to prevent further corrosion)31Feet107CorrosionScattered surface rust throughout both flanges and web215Feet107CorrosionScattered surface rust throughout both flanges and web215Feet151Effectiveness (Steel Protective Coatings)Previously cleaned and painted over section loss with reactivated corrosion (rust staining)366151Effectiveness (Steel Protective Coatings)Substantially effective245Square Feet151Effectiveness (Steel Protective Coatings)Substantially effective245Square Feet152Effectiveness (Steel Protective Coatings)Substantially effective245Square Feet153Effectiveness (Steel Protective Coatings)Substantially effective245Square Feet154Effectiveness (Steel Protective				Element Name							
Element NumberDefect TypeDefect DescriptionCSCS of QtyMaint Qty107CorrosionPM2' long x full width x down to knife edge area of advanced section loss (0.33" average thickness remaining) on bottom flange at pier 2. 1.5" long x 3/4" wide area of 100% section loss on south bottom flange at 16" from bearing. Previously cleaned and painted with rust staining reactivated.422Feet107Corrosionweb at end diaphragm on bent 2, pitting (1ft x 1in x up to 1/8in loss) (recently cleaned and painted to prevent further corrosion)31Feet107CorrosionScattered surface rust throughout both flanges and web215Feet515Effectiveness (Steel Protective Coatings)Previously cleaned and painted over section loss with reactivated corrosion (rust staining)366Square Feet515Effectiveness (Steel Protective Coatings)Substantially effective Protective Coatings)245Square FeetGeneral Comments	107		Steel Op	en Girder/Beam		41	24	15	0	2	Feet
NumberDefect TypeDefect DescriptionCSCSCS QtyQty107CorrosionPM2' long x full width x down to knife edge area of advanced section loss (0.33" average thickness remaining) on bottom flange at pier 2. 1.5" long x 3/4" wide area of 100% section loss on south bottom flange at 16" from bearing. Previously cleaned and painted with rust staining reactivated.422Feet107Corrosionweb at end diaphragm on bent 2, pitting (1ft x 1in x up to 1/8in loss) (recently cleaned and painted to prevent further corrosion)31Feet107CorrosionScattered surface rust throughout both flanges and web215Feet515Effectiveness (Steel Protective Coatings)Previously cleaned and painted over section loss with reactivated corrosion (rust staining)366Square Feet515Effectiveness (Steel Protective Coatings)Substantially effective245Square Feet516Effectiveness (Steel Protective Coatings)Substantially effective245Square Feet515Effectiveness (Steel Protective Coatings)Substantially effective245Square Feet6eneral CommentsBeam 3EStam 3SSS	515		Steel Pro	tective Coating		329	278	45	6	0 3	Square Feet
section loss (0.33" average thickness remaining) on bottom flange at pier 2. 1.5" long x 3/4" wide area of 100% section loss on south bottom flange at 16" from bearing. Previously cleaned and painted with rust staining reactivated. 107 Corrosion web at end diaphragm on bent 2, pitting (1ft x 1in x up to 1/8in loss) (recently cleaned and painted to prevent further corrosion) 107 Corrosion Scattered surface rust throughout both flanges and web 2 15 Feet 515 Effectiveness (Steel Protective Coatings) 515 Effectiveness (Steel Substantially effective Protective Coatings) 515 Effectiveness (Steel Substantially effective Protective Coatings) 515 General Comments 517 Beam 3		Dofoot T	Гуре	Def	ect Description			CS	CS Qty		
107 Corrosion Scattered surface rust throughout both flanges and web 2 15 Feet 515 Effectiveness (Steel Protective Coatings) Previously cleaned and painted over section loss with reactivated corrosion (rust staining) 3 6 6 Square Feet 515 Effectiveness (Steel Protective Coatings) Substantially effective 2 45 Square Feet 6 General Comments Beam 3 6 5 Square Feet	107	Corrosion		section loss (0.33" averag flange at pier 2. 1.5" long 2 on south bottom flange at	e thickness remai x 3/4" wide area o : 16" from bearing	ning) on bo f 100% sec	ttom tion loss	4	2	2	Feet
515 Effectiveness (Steel Protective Coatings) Previously cleaned and painted over section loss with reactivated corrosion (rust staining) 3 6 6 Square Feet 515 Effectiveness (Steel Protective Coatings) Substantially effective 2 45 Square Feet General Comments Beam 3 Beam 3 5 5 5 5	107	Corrosion						3		1	Feet
Protective Coatings) reactivated corrosion (rust staining) 515 Effectiveness (Steel Protective Coatings) General Comments Substantially effective Span 3 Beam 3	107	Corrosion		Scattered surface rust thro	oughout both flang	ges and web)	2	15		Feet
Protective Coatings) General Comments Span 3 Beam 3						3	6	6	Square Feet		
Span 3 Beam 3	515		•	Substantially effective				2	45		Square Feet
•	-	General Com	nents								
•	Spa	n 3		Bea	m 3						
	•										

	ment mber Steel Op	Element Name Den Girder/Beam	Total Qty 41	CS1 Qty 26	CS2 Qty 15	CS3 Qty 0	CS4 Qty 0	Feet
515	Steel Pr	otective Coating	329	284	45	0	0	Square Feet
Elemer Numbe	Dofoot Typo	Defect Description	n		CS	CS Qty	Maint Qty	
107	Corrosion	Scattered surface rust throughout both fla	anges and wel	c	2	15		Feet
515	Effectiveness (Steel Protective Coatings)	Substantially effective			2	45	4	5 Square Feet
	General Comments							

Span 3

Beam 4

Plate Girder

Fiat	e Girder							
Elen Nun		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
107	Steel O	Steel Open Girder/Beam		24	15	0	2	Feet
515	Steel Pr	otective Coating	329	276	45	8	0	Square Feet
Elemen Number	Dofact Type	Defect Desc	ription		CS	CS Qty	Maint Qty	
107	Corrosion	osion PM2' long x full width x down to knife edge area of advanced section loss (0.20" average thickness remaining) on bottom flange at pier 2. 5" long x 1" wide area of 100% section loss on north bottom flange. Previously cleaned and painted with rust staining reactivated.		ottom loss on	4	2		2 Feet
107	Corrosion	Scattered surface rust throughout b	ooth flanges and we	b	2	15		Feet
515	Effectiveness (Steel Protective Coatings)	Previously cleaned and painted over reactivated corrosion (rust staining)			3	8		8 Square Feet
515	Effectiveness (Steel Protective Coatings)	Substantially effective			2	45		Square Feet

General Comments

Spa	an 3	Wearing Su	urface					
Asp	ohalt Wearing Sur	face						
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
510	Wearin	g Surface	984	960	0	24	0 5	Square Feet
Elemei Numbe	Defect Turne	Defect Desc	ription		CS	CS Qty	Maint Qty	
510	Crack (Wearing Surface)	Full width transverse crack up to 1/	4" wide over abutme	ent.	3	24	24	Square Feet
	Osmanal Commente							

General Comments

Span 3

Left Bridge Rail

Concrete Railing

Elem Num	ber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
331	Reinfor	ced Concrete Bridge Railing	41	0	41	0	0 Feet
Element Number	Defect Type	Defect Description			CS	CS Qty	Maint Qty
331	Damage	top rail and parapet, scaling with exposed a	aggregate (fu	Ill length	2	41	41 Feet

General Comments

Span Conc	3 rete Railing	Right Bridge	Rail				
Eleme	ent	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
331	Rein	forced Concrete Bridge Railing	41	0	41	0	0 Feet
lement lumber	Defect Type	Defect Descrip	otion		CS	CS Qty	Maint Qty
331 D	Damage	top rail and parapet, scaling with expo x full width)	osed aggregate (fu	ull length	2	41	41 Feet

General Comments

Structure Number: 320035

Span 3 Other Bearing

0	lor Bouring						
	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other B	earings	1	0	1	0	0 Each
515	Steel Pr	otective Coating	2	0	2	0	0 Square Feet
Eleme Numbe	Defect Type	Defect Desc	cription		CS	CS Qty	Maint Qty
316	Corrosion	Previously cleaned and painted with	th light surface rust		2	1	Each
515	Effectiveness (Steel Protective Coatings)	Substantially effective			2	2	Square Feet
	General Comments						

Span 3

Near Bearing

Other Bearing

CS4 Element Total CS1 CS2 CS3 Number **Element Name** Qty Qty Qty Qty Qty 316 Other Bearings 0 Each 0 0 1 1 515 Steel Protective Coating 2 0 2 0 0 Square Feet Element Maint **Defect Description** CS CS Qty **Defect Type** Qty Number Previously cleaned and painted with light surface rust 2 316 Corrosion 1 Each Effectiveness (Steel Protective Coatings) 515 Substantially effective 2 2 Square Feet **General Comments**

Span 3

Near Bearing

Other Bearing

Elen Nun	nent 1ber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
316	Other B	earings	1	0	1	0	0 Each
515	Steel Pr	otective Coating	2	0	2	0	0 Square Feet
Elemen Numbe	Defect Turne	Defect Desc	ription		CS	CS Qty	Maint Qty
316	Corrosion	Previously cleaned and painted with	n light surface rust		2	1	Each
515	Effectiveness (Steel Protective Coatings)	Substantially effective			2	2	Square Feet

General Comments

Span 3

Near Bearing

Other Bearing

•								
Elen Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
316	Other B	earings	1	0	0	1	0	Each
515	Steel Pr	rotective Coating	2	0	0	2	0	Square Feet
Elemen Number	Dofoot Typo	Defect Desc	ription		CS	CS Qty	Maint Qty	
316	Corrosion	Previously cleaned and painted, but corrosion has reactivated with no additional section loss (up to 1/8") and anchor bolt nut corroded (100%)			3	1	1	1 Each
515	Effectiveness (Steel	Paint failure with bare metal expose	Paint failure with bare metal exposed		3	2		Square Feet

Protective Coatings)

General Comments

Bent 1

Cap 1

Reinforced Concrete Pier Cap

Element	Element Name	Total	CS1	CS2	CS3	CS4
Number		Qty	Qty	Qty	Qty	Qty
234	Reinforced Concrete Pier Cap	26	0	10	16	0 Feet

Element Number	Defect Type	Defect Description	cs	CS Qty	Maint Qty	
234	Delamination/Spall	2.5' long x 3" high x 4" wide area of delamination on bottom of east face of cap between piles 3 and 4	3	3	3	Feet
234	Delamination/Spall	3' long x 3" high x 1' wide area of delamination on bottom of west face of cap at pile 4	3	3		Feet
234	Delamination/Spall	3' long x 4" high x 1' wide area of delamination on bottom of east face of cap between piles 4 and 5	3	3	3	Feet
234	Delamination/Spall	3.5' long x 5" high area of delamination on bottom of east face of cap between piles 2 & 3	3	4	4	Feet
234	Delamination/Spall	33" long x 8" high x 8" under area of delamination on bottom of west face of cap at bay 2.	3	3	3	Feet
234	Patched Area	4' long x 2' high sound patched area on east face south end of cap	2	3		Feet
234	Patched Area	7' long x up to full height sound patched area on west face of cap starting at pile 4 and extending to south end of cap	2	7		Feet

General Comments

End Bent 1

Abutment

Reinforced Concrete Abutment

	ment nber		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty
215		Reinfor	ced Concrete Abutment	31	29	2	0	0 Feet
Elemen Numbe	Dofo	ct Type	Defect Descrip	tion		CS	CS Qty	Maint Qty
215	Cracking (Other)	RC and	2' long x 1/32" wide diagonal crack on down	backwall in bay 2	at step	2	2	Feet

Other)

General Comments

Bent 2

Cap 1

Reinforced Concrete Pier Cap

	ment mber	Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
234	Reinfor	ced Concrete Pier Cap	26	3	12	11	0 F	eet
Elemer Numbe	Dofact Type	Defect Descript	lion		CS	CS Qty	Maint Qty	
234	Cracking (RC and Other)	3' long x up to 1/16" wide horizontal cra face of cap at pile 3	ack on bottom of	east	3	3	3	Feet
234	Cracking (RC and Other)	Two up to 3' long x up to 1/8" wide hore staining on south end at top and bottor		h rust	3	5	5	Feet
234	Delamination/Spall	3.5' long x 6" high x full width on bottor under beam 2	n of cap on west	face	3	3	3	Feet
234	Delamination/Spall	8" long x 7" high x 3" deep spall with no piles 2 and 3 on bottom of east face of		between	3		1	Feet
234	Cracking (RC and Other)	Full height vertical hairline cracks unde west.	er beams 2 and 3	on	2	2		Feet
234	Patched Area	5' long x 6" high sound patched area si out to pile 4 on west face	tarting at pile 3 e	xtending	2	5		Feet
234	Patched Area	5ft x up to full height sound patched ar	ea with hairline m	nap	2	5		Feet

cracking on west face at south end.

General Comments

Bent 53		Ероху Со	pating 1					
Ероху Со	pating							
Element Number		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
Element Number	Defect Type	Defect De	scription		CS	CS Qty	Maint Qty	
Genera	al Comments							
Bent 59		Ероху Со	pating 1					
Ероху Со	bating							
Element Number		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
lement Jumber	Defect Type	Defect De	scription		CS	CS Qty	Maint Qty	

General Comments

Elements Verfied

Location	Name	Component	Element Name	Amount
Span 1	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1140
Span 1	Beam 1	Plate Girder	Steel Open Girder/Beam	40
Span 1	Beam 2	Plate Girder	Steel Open Girder/Beam	40
Span 1	Beam 3	Plate Girder	Steel Open Girder/Beam	40
Span 1	Beam 4	Plate Girder	Steel Open Girder/Beam	40
Span 1	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	40
Span 1	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	40
Span 1	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	960
Span 1	Near Bearing	Other Bearing	Other Bearings	1
Span 1	Far Bearing	Other Bearing	Other Bearings	1
Span 1	Near Bearing	Other Bearing	Other Bearings	1
Span 1	Far Bearing	Other Bearing	Other Bearings	1
Span 1	Near Bearing	Other Bearing	Other Bearings	1
Span 1	Far Bearing	Other Bearing	Other Bearings	1
Span 1	Near Bearing	Other Bearing	Other Bearings	1
Span 1	Far Bearing	Other Bearing	Other Bearings	1
Span 2	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1155
Span 2	Beam 1	Plate Girder	Steel Open Girder/Beam	41
Span 2	Beam 2	Plate Girder	Steel Open Girder/Beam	41
Span 2	Beam 3	Plate Girder	Steel Open Girder/Beam	41
Span 2	Beam 4	Plate Girder	Steel Open Girder/Beam	41
Span 2	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	41
Span 2	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	41
Span 2	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	972
Span 2	Near Bearing	Other Bearing	Other Bearings	1
Span 2	Far Bearing	Other Bearing	Other Bearings	1
Span 2	Near Bearing	Other Bearing	Other Bearings	1
Span 2	Far Bearing	Other Bearing	Other Bearings	1
Span 2	Near Bearing	Other Bearing	Other Bearings	1
Span 2	Far Bearing	Other Bearing	Other Bearings	1
Span 2	Near Bearing	Other Bearing	Other Bearings	1
Span 2	Far Bearing	Other Bearing	Other Bearings	1
Span 3	Deck	Reinforced Concrete Deck	Reinforced Concrete Deck	1169
Span 3	Beam 1	Plate Girder	Steel Open Girder/Beam	41
Span 3	Beam 2	Plate Girder	Steel Open Girder/Beam	41
Span 3	Beam 3	Plate Girder	Steel Open Girder/Beam	41
Span 3	Beam 4	Plate Girder	Steel Open Girder/Beam	41
Span 3	Left Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	41
Span 3	Right Bridge Rail	Concrete Railing	Reinforced Concrete Bridge Railing	41
Span 3	Wearing Surface	Asphalt Wearing Surface	Wearing Surface	984
Span 3	Near Bearing	Other Bearing	Other Bearings	1
Span 3	Far Bearing	Other Bearing	Other Bearings	1
Span 3	Near Bearing	Other Bearing	Other Bearings	1
Span 3	Far Bearing	Other Bearing	Other Bearings	1
Span 3	Near Bearing	Other Bearing	Other Bearings	1

Elements Verfied

Location	Name	Component	Element Name	Amount
Span 3	Far Bearing	Other Bearing	Other Bearings	1
Span 3	Near Bearing	Other Bearing	Other Bearings	1
Span 3	Far Bearing	Other Bearing	Other Bearings	1
Bent 1	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	26
Bent 1	Pile 1	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 1	Pile 2	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 1	Pile 3	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 1	Pile 4	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 1	Pile 5	Prestressed Concrete Pile	Prestressed Concrete Pile	1
End Bent 1	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	31
Bent 2	Cap 1	Reinforced Concrete Pier Cap	Reinforced Concrete Pier Cap	26
Bent 2	Pile 1	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 2	Pile 2	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 2	Pile 3	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 2	Pile 4	Prestressed Concrete Pile	Prestressed Concrete Pile	1
Bent 2	Pile 5	Prestressed Concrete Pile	Prestressed Concrete Pile	1
End Bent 2	Abutment	Reinforced Concrete Abutment	Reinforced Concrete Abutment	31

General Inspection Notes

National Bridge and NC Inspection Items

Structure Number: 320035

Inspection Date: 10/18/2018

National Bridge Inventory Items

Item	Grade Scale	Grade
Item 58: Deck	0 - 9 , N	5
Item 59: Superstructure	0 - 9 , N	5
Item 60: Substructure	0 - 9 , N	5
Item 61: Channel and Channel Protection	0 - 9 , N	7
Item 62: Culvert	0-9, N	N
Item 71: Waterway Adequacy	0 - 9 , N	7
Item 72: Approach Roadway Alignment	0 - 9 , N	6

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

NC SMU Inspection Items

ltem	Grade Scale	Grade	Maint. Qty.	Maint. Code
Deck Debris	G, F, P, or C	F	3464	3376
Drainage System	G, F, P, or C	G	0	3332
Utilities	G, F, P, or C			
Slope Protection	G, F, P, or C	F	10	3352
Scour	G, F, P, or C	G		
Wingwall	G, F, P, or C	G	0	3350
Field Scour Evaluation		о		
Drift	G, F, P, or C	F	4	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	12		
Superstructure Paint Code		Α		

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	Y
Inspection Time	Hours	6
Traffic Control Time	Hours	0
Snooper Time	Hours	0
Ladder Used	YES/NO	N
Bucket Truck Used	YES/NO	N
Boat Used	YES/NO	Y
Other Equipment Used	YES/NO	N

National Bridge and NC SMU Inspection Item Details

Inspection Date: 10 Inspection Date: 10				
Item	Deck Debris	Grade F	Maint Code 3376	Qty. 3464
Details	Debris accumulation with vegetation growth entire length of right rail 10" wide with a few drains partially blocked.			
Item	Slope Protection	Grade F	Maint Code 3352	Qty. 10
Details	s End bent 1 slope protection south end ar waterline is settled for 2.5' long x up 1" deep End bent 1 slope protection 3' long x 2' wide area of delamination on front of slope in bay 3 at brace pile cap			
Item	Drift	Grade F	Maint Code 3366	Qty. 4

Details Drift accumulation between beams in bays 2 and 3 in span 2 and on top of pier 2 cap within all bays and south end

Structure: 320035

County: EDGECOMBE

Date: 10/18/2018

Condition Photos



Span 3 Wearing Surface: Full width transverse crack up to 1/4" wide over abutment.



Span 2 Wearing Surface: PM--Full width pothole over pier 2 up to 6" wide x 2" deep full width of bridge. Pothole is full of gravel 1" deep.

Date: 10/18/2018

Condition Photos



Span 1 Wearing Surface: PM--12' long pothole starting at center line out in westbound travel lane over pier 1 up to 6" wide x 2" deep full width of bridge. Pothole is full of gravel 1" deep.



Span 1 Wearing Surface: Eastbound travel lane and both shoulders over end bent 1 have 2 transverse cracks up to 1/4" over pier 1.

Structure: 320035

County: EDGECOMBE

Date: 10/18/2018

Condition Photos



Span 1 Wearing Surface: Full width transverse crack up to 1/4" wide over abutment.



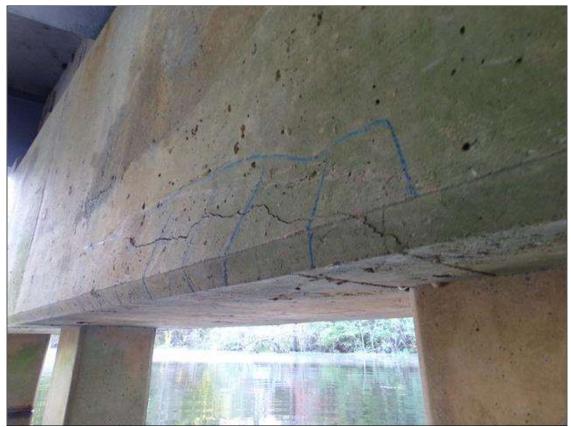
Debris accumulation with vegetation growth entire length of right rail 10" wide with a few drains partially blocked.

Date: 10/18/2018

Condition Photos



Typical top rail and parapet, scaling with exposed aggregate (full length x full width), left rail span 1 shown, right rail similar.



Bent 1 Cap 1: 33" long x 8" high x 8" under area of delamination on bottom of west face of cap at bay 2.

Date: 10/18/2018

Condition Photos



Bent 1 Cap 1: 3' long x 3" high x 1' wide area of delamination on bottom of west face of cap at pile 4



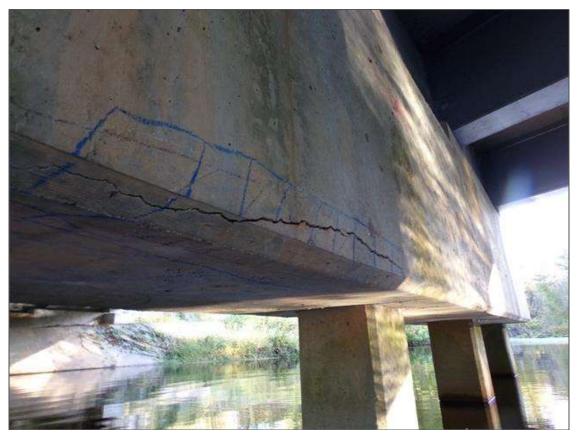
Bent 1 Cap 1: 7' long x up to full height sound patched area on west face of cap starting at pile 4 and extending to south end of cap

Date: 10/18/2018

Condition Photos



Bent 1 Cap 1: 3.5' long x 5" high area of delamination on bottom of east face of cap between piles 2 & 3



Bent 1 Cap 1: 2.5' long x 3" high x 4" wide area of delamination on bottom of east face of cap between piles 3 and 4

Date: 10/18/2018

Condition Photos



Bent 1 Cap 1: 3' long x 4" high x 1' wide area of delamination on bottom of east face of cap between piles 4 and 5



Bent 1 Cap 1: 4' long x 2' high sound patched area on east face south end of cap

Date: 10/18/2018

Condition Photos



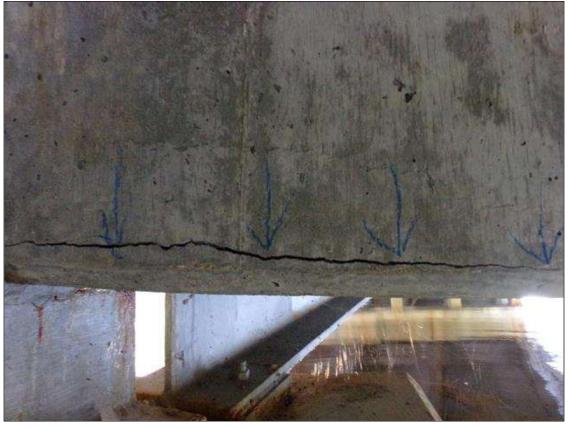
Span 1 Beam 4: 2' high x 2' long x 3/8" thick steel plate added over pier 1 on both faces of web



Span 1 Beam 4 Far Bearing: Previously cleaned and painted, but corrosion has reactivated with no additional section loss (up to 1/8") and anchor bolt nut corroded (100%)

Date: 10/18/2018

Condition Photos



End Diaphragm at Pier: Typical cracking up to 1/8" wide on diaphragm (Span 1 in Bay 3 at Pier 1 shown; Others similar)



Span 1 Beam 4: 1' long painted over corrosion with section loss (3/8" remaining thickness) on outer edges (2") of bottom flange with 7/16" average remaining thickness across full width. 11/16" original thickness.

Date: 10/18/2018

Condition Photos



End Diaphragm: Full height x full width x up to 3" deep area of delamination/spall on southwest corner on south overhang in span 1



Drift accumulation between beams in bays 2 and 3 in span 2 and on top of pier 2 cap within all bays and south end

Date: 10/18/2018

Condition Photos



Span 2 Beam 1 Far Bearing: PM---Previously cleaned and painted over section loss (approximately 40%) with reactivated corrosion with nearly 60% section remaining.



End Diaphragm: Span 3 2' long x 3"wide x 3" d spall with exposed rebar with no measurable section on bottom west face corner

Date: 10/18/2018

Condition Photos



Span 2 Beam 4: bottom flange at bent 2, pitting (1ft x 5in) (0.30in avg rem) (recently cleaned and painted with rust staining



18" long x 20" long added at end of beam 4 at pier 2 span 2

Date: 10/18/2018

Condition Photos



18" long x 20" long added at end of beam 4 at pier 2 span 3

Date: 10/18/2018

Condition Photos



Span 3 Beam 4: PM---2' long x full width x down to knife edge area of advanced section loss (0.20" average thickness remaining) on bottom flange at pier 2. 5" long x 1" wide area of 100% section loss on north bottom flange. Previously cleaned and painted with rust staining reactivated.

Date: 10/18/2018

Condition Photos



Span 3 Beam 2: PM---2' long x full width x down to knife edge area of advanced section loss (0.33" average thickness remaining) on bottom flange at pier 2. 1.5" long x 3/4" wide area of 100% section loss on south bottom flange at 16" from bearing. Previously cleaned and painted with rust staining reactivated.

Date: 10/18/2018

Condition Photos



Bent 2 Cap 1: 3.5' long x 6" high x full width on bottom of cap on west face under beam 2



Bent 2 Cap 1: 5' long x 6" high sound patched area starting at pile 3 extending out to pile 4 on west face

Date: 10/18/2018

Condition Photos



Bent 2 Cap 1: 5ft x up to full height sound patched area with hairline map cracking on west face at south end.



Bent 2 Cap 1: 3' long x up to 1/8" wide horizontal crack with rust staining on south end at bottom of cap that wraps around 3" on south end

Date: 10/18/2018

Condition Photos



Bent 2 Cap 1: 8" long x 7" high x 3" deep spall with no exposed rebar between piles 2 and 3 on bottom of east face of cap



Span 3 Deck: 7" diameter area of delamination on south overhang at 2' from pier 2

Date: 10/18/2018

Condition Photos



Bent 2 Cap 1: 3' long x up to 1/16" wide horizontal crack on bottom of east face of cap at pile 3



Span 1 Beam 2: Typical painted over pitting (1' long x 1" wide x up to 1/8" deep) at interface with concrete end diaphragms at piers.

Date: 10/18/2018

Condition Photos



Slope Protection: End bent 1 slope protection south end ar waterline is settled for 2.5' long x up 1" deep



Slope Protection: End bent 1 slope protection 3' long x 2' wide area of delamination on front of slope in bay 3 at brace pile cap

Date: 10/18/2018

Structure Photos



Looking east



Posting sign at west approach



Looking south upstream



Looking north downstream

Structure: 320035

County: EDGECOMBE

Date: 10/18/2018

Structure Photos



Joint over pier 1, pier 2 similar



Looking west

Date: 10/18/2018

Structure Photos



Posting sign at east approach



North elevation



South elevation



Abutment 2, abutment 1 similar

Structure: 320035

County: EDGECOMBE

Date: 10/18/2018

Structure Photos



Abutment 1 (Abutment 2 Similar)



Pier 1 (Pier 2 Similar)

Date: 10/18/2018

Structure Photos



Typical bearing (Beam 2 Pier 1 Span 2)



General Superstructure Underside (Span 2 shown.

Stream Bed Soundings (Profile diagram on following sheet)

County EDGECOMBE

Structure Number: 320035

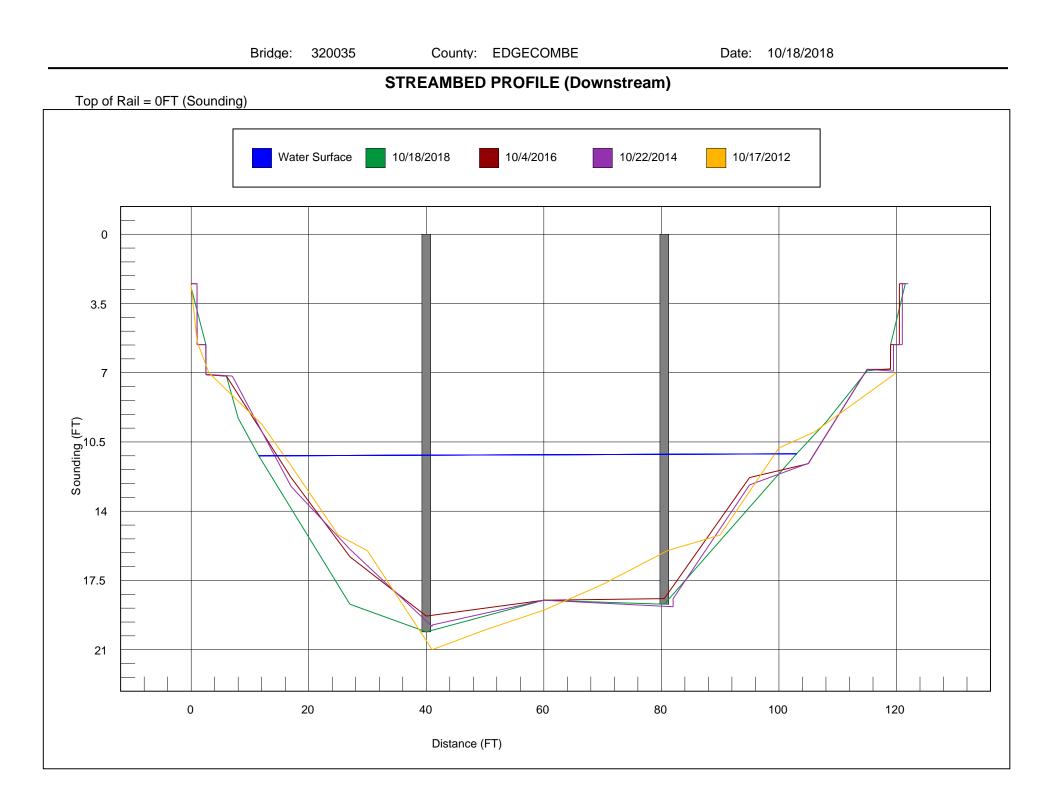
Inspection Date 10/17/2018

Sounding recorded from: Top of Bridge Rail

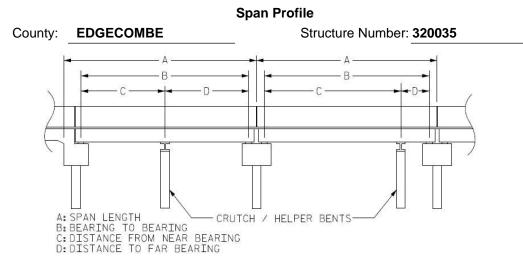
Highwater Mark Distance

Location of Highwater Mark

Distance (Station) ft.	Downstream Sounding ft.	Upstream Sounding ft.	Description
0.000	2.700	0.000	FF ABUT 1
2.500	5.580	0.000	TOP OF CAP
2.510	7.100	7.200	SF ABUT 1
6.000	7.170	0.000	TOP OF SLOPE
8.000	9.300	0.000	TOE OF SLOPE
11.500	11.200	0.000	WSWE
27.000	18.700	0.000	
40.000	20.100	19.800	PIER 1
60.000	18.500	0.000	
80.500	18.700	18.200	PIER 2
103.000	11.100	0.000	WSWE
108.000	9.500	0.000	TOE OF SLOPE
115.000	6.900	0.000	TOP OF SLOPE
118.990	6.800	6.700	SF ABUT 2
119.000	5.580	0.000	TOP OF CAP
121.500	2.500	0.000	FF ABUT 2



Structure Data Worksheet



Span Number	Span Length	Bearing to Bearing	Crutch/ Helper Bent	Distance to Near Bearing	Distance to Far Bearing
1	40.000	38.250			
2	40.500	39.500			
3	41.000	39.250			

IDENTIFICATION		
(1) STATE NAME -NORTH CAROLINA BRIDGE	32	20035
(8) STRUCTURE NUMBER(FEDERAL)	000000006	50035
(5) INVENTORY ROUTE (ON/UNDER) - ON	310 ⁻	16160
(2) STATE HIGHWAY DEPARTMENT DISTRICT		1
(3) COUNTY CODE 65 (4) PLACE CODE		0
(6) FEATURE INTERSECTED - OTTER CREEK		
(7) FACILITY CARRIED SR 1616		
(9) LOCATION 1.1 MI SE. OF US 258		
(11)MILEPOINT		0
(16)LAT 35° 43' 51.73" (17)LONG 77° 36	6' 48.67"	
(98)BORDER BRIDGE STATE CODE PCT S	SHARE	
(99)BORDER BRIDGE STRUCTURE NO		
STRUCTURE TYPE AND MATERIAL		
(43) STRUCTURE TYPE MAIN: Steel		
TYPE - Stringer Mutlibeam or Girder	CODE	302
(44) STRUCTURE TYPE APPR :		
TYPE -	CODE	000
(45) NUMBER OF SPANS IN MAIN UNIT		3
(46) NUMBER OF APPROACH SPANS		
(107)DECK STRUCTURE TYPE - 1	CODE	
(108)WEARING SURFACE / PROTECTIVE SYSTEM :		
(A) TYPE OF WEARING SURFACE - Bituminous	CODE	6
(B) TYPE OF MEMBRANE - None	CODE	0
(C) TYPE OF DECK PROTECTION - None	CODE	0
AGE AND SERVICE		
(27) YEAR BUILT		1957
(106)YEAR RECONSTRUCTED		
(42) TYPE OF SERVICE : ON - Highway		
UNDER - Waterway	CODE	15
(28) LANES: ON STRUCTURE 2 UNDER STRUCTURE		0
(29) AVERAGE DAILY TRAFFIC		340
(30) YEAR OF ADT 2015 (109) TRUCK ADT PCT		6%
(19) BYPASS OR DETOUR LENGTH		3 MI
GEOMETRIC DATA		
(48) LENGTH OF MAXIMUM SPAN		40 FT
(49) STRUCTURE LENGTH	1	22 FT
(50)CURB OR SIDEWALK: LEFT 1.2085 FT RIGHT	1.20	85 FT
(51) BRIDGE ROADWAY WIDTH CURB TO CURB		24 FT
(52) DECK WIDTH OUT TO OUT	28	3.5 FT
		3.5 FT
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)	18	

(34) SKEW

15°

(54) MIN VERT UNDERCLEAR REF Not a Highway or Railroad

(55) MIN LAT UNDERCLEAR RT REF Not a Highway or Railroad

(38) NAVIGATION CONTROL - No Navigational Control

-NAVIGATION DATA -

(10) INVENTORY ROUTE MIN VERT CLEAR

(47) INVENTORY ROUTE TOTAL HORIZ CLEAR

(53) MIN VERT CLEAR OVER BRIDGE RDWY

(56) MIN LAT UNDERCLEAR LT REF -

(39) NAVIGATION VERTICAL CLEARANCE

(116)VERT - LIFT BRIDGE NAV MIN VERT CLEAR

(40) NAVIGATION HORIZONTAL CLEARANCE

(111)PIER PROTECTION -

(35) STRUCTURE FLARED

0

999.9 FT

999.9 FT

24 FT

0 FT

000 FT

000 FT

0

0

FΤ

0 FT

SCOUR

CODE

CODE

SUFFICIENCY RATING =

49.08

STATUS = Not Deficient

CLASSIFICATION	CODE
(112)NBIS BRIDGE SYSTEM -	YES
	0
(104)HIGHWAY SYSTEM Is not on NHS	0
(26) FUNCTIONAL CLASS - Local	09
(100)STRAHNET HIGHWAY - Not a STRAHNET Route	0
(101)PARALLEL STRUCTURE - No Parallel Structure	Ν
(102)DIRECTION OF TRAFFIC - 2-way Traffic	2
(103)TEMPORARY STRUCTURE -	
(110) DESIGNATED NATIONAL NETWORK - Not on the National Network	0
(20) TOLL On Free Road	3
(31) MAINTAIN - State Highway Agency	01
(22) OWNER - State Highway Agency	01
(37) HISTORICAL SIGNIFICANCE - Not Eligible	5
CONDITION	CODE ·

	ONDITION -		CODE
(58) DECK			5
(59) SUPERSTRUCTURE			5
(60) SUBSTRUCTURE			5
(61) CHANNEL & CHANNEL PROT	ECTION		7
(62) CULVERTS			Ν
LOAD RAT	ING AND POST	NG	CODE ·
(31) DESIGN LOAD Unknow	vn		0
(63) OPERATING RATING METHO	D - Load Factor		1
(64) OPERATING RATING -	HS-14		25
(65) INVENTORY RATING METHO	D - Load Factor		1
(66) INVENTORY RATING - HS-8	3		15
(70) BRIDGE POSTING - Post	ing Required		0
(41) STRUCTURE OPEN, POSTED	,OR CLOSED		Р
DESCRIPTION - Posted for	Load		
AF	PPRAISAL —		- CODE
(67) STRUCTURAL EVALUATION			4
(68) DECK GEOMETRY			5
(69) UNDERCLEARANCES, VERTI	& HORIZ		N
(71) WATERWAY ADEQUACY			7
(72) APPROACH ROADWAY ALIGN	IMENT		6
(36) TRAFFIC SAFETY FEATURES			0000
(113)SCOUR CRITICAL BRIDGES			U
PROPOS	SED IMPROVEM	ENTS ———	
(75) TYPE OF WORK -		CODE	
(76) LENGTH OF STRUCTURE IMP	PROVEMENT		
(94) BRIDGE IMPROVEMENT COS	т		
(95) ROADWAY IMPROVEMENT C	OST		
(96) TOTAL PROJECT COST			
(97) YEAR OF IMPROVEMENT CO	ST ESTIMATE		
(114)FUTURE ADT 680	(115) YEAR	FUTURE ADT	2025
INS	SPECTIONS		
(90) INSPECTION DATE			10/18/2018
(92) CRITICAL FEATURE INSPECT	ION :	(93) CFI DATE	E
A) FRACTURE CRIT DETAIL -		A)	
B) UNDERWATER INSP -	YES 48Mo	B) 0	2/25/2015
C) OTHER SPECIAL INSP	NO	C)	

BRIDGE MANAGEMENT UNIT

		DA	TA ON EXISTING	STRUCTURE	Run D	ate: 02/05/2019		
COUNTY : EDGECOMBE		DIVISION : 4	DISTRICT: 1	STRUCTURE 32	NUMBER : 20035	LENG	TH : 122	FEET
ROUTE CARRIED : S	R 1616		FEATURE IN	TERSECTED :	OTTER CREEK			
LOCATED : 1.1 MI SE. (OF US 258		BRIDGE NAME	:	C	TY :		
FUNC. CLASS : 09	SYST.ON : NFA	SYST.UN	DER : NFA	ADT & YR : 340	2015	RAIL TYPE LT 141		1
BUILT : 1957	BY : SHC	PROJ :	8.11356	FED.AID PF	ROJ :	DESIGN LOAD :	Unknown	
REHAB : B	Y :	PROJ :	ALIGNMEN	T: SKE LT	W : L 75	ANES : ON 2	UNDER	0
NAVIGATION : VC 0	FT	HC 0	HT. CRN FT	. TO BED : 17	۲	NATER DEPTH : 7		FT
SUPERSTRUCTURE :	RC FLOOF	R ON I-BEAMS						
SUBSTRUCTURE :	E.BTS & IN	IT.BTS: RC CAP	S/RC PILES					
SPANS :	1@40'-0"; <i>*</i>	1@40'-6"; 1@41'	-0"					
BEAMS OR GIRDERS :	4 LINE	ES 27" I-BEAMS	@ 7'CENTERS					
FLOOR : 8 RC/2 AWS	6	ENCROACH	IENT :	DEC	K (OUT TO OUT	⁻) : 28.5 FT		
CLEAR ROADWAY :		BETWEEN RA	ILS :	SIE	EWALK OR CU	RB :		
24 F	Т		26.417 F	Г	LT	1.2085 FT	RT	1.2085 FT
VERT.CL.OVER : 999.9 FT								
INV.RTG. : HS-8	OPE.RTG. : H	CON IS-14	TR.MEMBER : Int. Bm	POSTE SV	ED : 18 TTST	22 DATE	11/05/2	012
SYSTEM : Secondary S.R. Route					GREEN L	INE ROUTE :	N	

UNDER ROUTES AND CLEARANCES

Bridge: 320035

County EDGECOMBE

Date: 10/18/2018

	These Repairs Should Be Made Within Twelve Months From Date Of This Inspection							
MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost			
👋 2816	Asphalt Surface Repair or Replacement	SY	24	Span 2 Wearing Surface: PMFull width pothole over pier 2 up to 6" wide x 2" deep full width of bridge. Pothole is full of gravel 1" deep.				
3314	Maintain Steel Superstructure Components	LF	2	Span 3 Beam 4: PM2' long x full width x down to knife edge area of advanced section loss (0.20" average thickness remaining) on bottom flange at pier 2. 5" long x 1" wide area of 100% section loss on north bottom flange. Previously cleaned and painted with rust staining reactivated.				
3342	Clean and Paint Structural Steel	SF	2	Span 2 Beam 1 Far Bearing: PMPreviously cleaned and painted over section loss (approximately 40%) with reactivated corrosion with nearly 60% section remaining.				
👋 3342	Clean and Paint Structural Steel	SF	0	Span 2 Beam 4 Near Bearing:PM Paint failure with bare metal exposed				
2816	Asphalt Surface Repair or Replacement	SY	12	Span 1 Wearing Surface: PM12' long pothole starting at center line out in westbound travel lane over pier 1 up to 6" wide x 2" deep full width of bridge. Pothole is full of gravel 1" deep.				
3314	Maintain Steel Superstructure Components	LF	2	Span 3 Beam 2: PM2' long x full width x down to knife edge area of advanced section loss (0.33" average thickness remaining) on bottom flange at pier 2. 1.5" long x 3/4" wide area of 100% section loss on south bottom flange at 16" from bearing. Previously cleaned and painted with rust staining reactivated.				
3334	Bridge Bearings	EA	0	Span 2 Beam 1 Far Bearing: PMPreviously cleaned and painted over section loss (approximately 40%) with reactivated corrosion with nearly 60% section remaining.				
3342	Clean and Paint Structural Steel	SF	6	Span 3 Beam 2: PMPreviously cleaned and painted over section loss with reactivated corrosion (rust staining)				
3342	Clean and Paint Structural Steel	SF	8	Span 3 Beam 4: PMPreviously cleaned and painted over section loss with reactivated corrosion (rust staining)				

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Bridge: 320035

County EDGECOMBE

THE FOLLOWING MAINTENANCE ITEMS HAVE BEEN SUBMITTED IN CONJUNCTION WITH A PRIORITY MAINTENANCE REQUEST

MMS Code	MM	MMS Description						
2816	Asph	halt Surfac	ce Repair or Replacement		24	SY		
Location:								
			Bent/Span No.					
Priority Leve	əl		Status					
Priority Main	ntenanc	ce 🛛	Division Bridge Maintenance Notification Received					
Submitted D	ate:	Submitte	d By:	Assisted By:				
10/17/2018		Andrew	Matlock					
Details								
Span 2 Wea full of gravel			ЛFull width pothole over pier 2 up	to 6" wide x 2" deep full width of brid	ge. Pothole	; is		

MMS Code	MN	/IS Descrip	Quantity					
3314	Maii	ntain Steel	tain Steel Superstructure Components					
Location:	Location:							
	Bent/Span No.							
Priority Level			Status					
Priority Main	tenan	се	Division Bridge Maintenance Notification Received					
Submitted D	ate:	Submitte	d By:	Assisted By:				
10/18/2018		Andrew Matlock						
Details	Details							

Span 3 Beam 4: PM---2' long x full width x down to knife edge area of advanced section loss (0.20" average thickness remaining) on bottom flange at pier 2. 5" long x 1" wide area of 100% section loss on north bottom flange. Previously cleaned and painted with rust staining reactivated.

Bridge: 320035

County EDGECOMBE

THE FOLLOWING MAINTENANCE ITEMS HAVE BEEN SUBMITTED IN CONJUNCTION WITH A PRIORITY MAINTENANCE REQUEST

MMS Code	MM	MMS Description							
3342	Clea	in and Pai	int Structural Steel		2	SF			
Location:									
			Bent/Span No.						
Priority Leve	el		Status	Status					
Priority Mair	ntenanc	ce	Division Bridge Maintenance Notification Received						
Submitted D)ate:	Submitte	d By:	Assisted By:					
10/19/2018		Andrew	Matlock						
Details									
			: PMPreviously cleaned and pain early 60% section remaining.	ted over section loss (approximately	40%) with				

MMS Code	MN	MMS Description					
3342	Clea	an and Pai	nt Structural Steel		0	SF	
Location:							
			Bent/Span No.				
Priority Level			Status				
Priority Main	tenan	се	Division Bridge Maintenance Notification Received				
Submitted D	ate:	Submitte	d By:	Assisted By:			
10/19/2018		Andrew	Matlock				
Details							
Span 2 Bear	n 4 Ne	ear Bearin	g:PM Paint failure with bare meta	l exposed			

Bridge: 320035

County EDGECOMBE

THE FOLLOWING MAINTENANCE ITEMS HAVE BEEN SUBMITTED IN CONJUNCTION WITH A PRIORITY MAINTENANCE REQUEST

MMS Code	MN	VS Descrip	Quantity						
2816	Asp	halt Surfac	ce Repair or Replacement		12	SY			
Location:									
			Bent/Span No.						
Priority Leve	el		Status	Status					
Recommend	ded		Routine Maintenance						
Submitted D	Date:	Submitte	d By:	Assisted By:					
10/17/2018		Andrew	Matlock						
Details									
			M12' long pothole starting at cente pridge. Pothole is full of gravel 1" de	er line out in westbound travel lane ov eep.	/er pier 1 up	to 6"			

MMS Code	MN	IS Descrip	Quantity					
3314	Maiı	ntain Steel	2	LF				
Location:								
	Bent/Span No.							
Priority Level			Status					
Recommended			Routine Maintenance					
Submitted Da	Date: Submitted By:			Assisted By:				
10/18/2018	2018 Andrew Matlock							
Details	Details							

Span 3 Beam 2: PM---2' long x full width x down to knife edge area of advanced section loss (0.33" average thickness remaining) on bottom flange at pier 2. 1.5" long x 3/4" wide area of 100% section loss on south bottom flange at 16" from bearing. Previously cleaned and painted with rust staining reactivated.

Bridge: 320035 County E

County EDGECOMBE

THE FOLLOWING MAINTENANCE ITEMS HAVE BEEN SUBMITTED IN CONJUNCTION WITH A PRIORITY MAINTENANCE REQUEST

MMS Code	MN	/IS Descrip	Quantity						
3334	Brid	lge Bearing	gs		0	EA			
Location:									
	Bent/Span No.								
Priority Level			Status						
Recommended			Routine Maintenance						
Submitted D	ate:	Submitte	d By:	Assisted By:					
10/19/2018		Andrew	Matlock						
Details									
Span 2 Beam 1 Far Bearing: PMPreviously cleaned and painted over section loss (approximately 40%) with reactivated corrosion with nearly 60% section remaining.									

MMS Code	MN	IS Descrip	Quantity					
3342	Clea	an and Pai	6	SF				
Location:								
	Bent/Span No.							
Priority Level			Status					
Recommended			Routine Maintenance					
Submitted D	Date: Submitted By:			Assisted By:				
10/18/2018	018 Andrew Matlock							
Details	Details							

Span 3 Beam 2: PM---Previously cleaned and painted over section loss with reactivated corrosion (rust staining)

Bridge: 320035

County EDGECOMBE

THE FOLLOWING MAINTENANCE ITEMS HAVE BEEN SUBMITTED IN CONJUNCTION WITH A PRIORITY MAINTENANCE REQUEST

MMS Code	MN	/IS Descrip	Quantity							
3342	Clea	an and Pai		8	SF					
Location:	Location:									
	Bent/Span No.									
Priority Level			Status	Status						
Recommended			Routine Maintenance							
Submitted D	Date:	Submitte	d By:	Assisted By:						
10/18/2018		Andrew	Matlock							
Details										
Span 3 Beam 4: PMPreviously cleaned and painted over section loss with reactivated corrosion (rust staining)										

Bridge Inspection Field Sketch

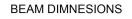
MEAS. TAKEN 125FT FROM WEST APPROACH

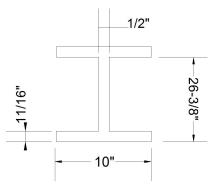
Roadway	18.5ft Wide	2 Paved Lanes	Looking East
Left Shoulder	3ft Wide		3ft Unpaved
Right Shoulder	6ft Wide		6ft Unpaved
Left Guardrail			
Right Guardrail			

MEAS. EDITED 10/18/2018...ASM ROADWAY EDITED TO 18.5FT WIDE LEFT SHOULDER EDITED TO 3FT WIDE/UNPAVED RIGHT SHOULDER EDITED TO 6FT WIDE/UNPAVED

Title		Description				
APPROACH ROADW	٩Y	DATA WORKSHEET				
Bridge Nog20035	Drawn By: VMH		^{Date:} 10/6/10	File Name:S0026000033		

	Deck Width/Out to Out	*	28.5ft	Betwee	en Rails		26.417f	t
	Clear Roadway	2	4ft	Wearir	ng Surface		0.167ft	
	Median Width			Mediar	n Height			
	Curb Height			Left	0.75ft	Right	0.75ft	
	Sidewalk Width			Left		Right		
	Clear Roadway (Rail to Me	dian)		Left		Right		
	Guardrail Width			Left	*0.75ft	Right	*0.75ft	_
	Top of Rail to Deck/Wearin	ice	Left	_eft 2.583ft	Right	2.583ft		
	Bridge Rail			Left	Type 14	Right	Type 14	
	Measurements for Span #		1					
	Deck Thickness		0.667	Left (Overhang		*3.75	
	Top of Rail to Bottom of Bear	m	5.417	Right	Overhang		*3.75	
Beam Numbe	r Beam Type	S	Spacing	Com		nents		
1	Steel I Beam	7ft	_					
2	Steel I Beam	7ft						
3	Steel I Beam							
0								





MEAS. VERIFIED 10/25/2018...ASM

Title			Description			
TYPICAL SECTION			TYPICAL SECTION			
Bridge Nog20035	Drawn By:	VMH		^{Date:} 10/6/10	File Name:S0026000035	

	Bridge Inspection Field Sketch									
	formention	L		0				<u>E</u>		
Leng 25.083		Height 2.500 ft.	Left Over 1.250	hang	Place Conc Right Over 1.250 f	rhang Le	eft Beam to En 1.500 ft.	nd of Cap.	Right Beam to Er 1.500 ft.	nd of Cap.
Subca Leng	ap Information th Width	Height	Material Left Over	hang	Right Over	rhang Le	eft Pile to Splic	ce.		
Sill Inf Leng	formation th Width	Height	Material							
Pile #	Material	Spacing	Width/Dia.	Height	Length	Orienta	tion Driven?	Replacem	nent? Removed?	Collar?
1	Concrete	5.75 ft.	1 ft.	1 ft.	5	Battere		No	No	No
2	Concrete	5.5 ft.	1 ft.	1 ft.		Vertica	I Yes	No	No	No
3	Concrete	5.583 ft.	1 ft.	1 ft.		Vertica	l Yes	No	No	No
4	Concrete	5.75 ft.	1 ft.	1 ft.		Vertica	l Yes	No	No	No
5	Concrete		1 ft.	1 ft.		Battere	d Yes	No	No	No
	AS. VER		10/18/2 Similar I							
Title						Descrip	tion			
SUR	SUBSTRUCTURE						ORKSHEET			
Bridge Nog		Drawr	By: PAR	KER GU	FFEY		Date:10/4/201	16	File Name:S00260	00036

