ATTENTION: PM's ISSUED

Structure Safety Report

Routine Element Inspection - Contract

COUNTY: AVERY STI	RUCTURE NUMBER: 05	50002	FREQUENCY	: 24 MONTHS	
FACILITY CARRIED: US321			MILE POST:		
LOCATION: 50 FT.E.JCT.SR1314					
FEATURE INTERSECTED: BEECH CRE	EK				
LATITUDE: 36° 15′ 42.44″	LONGITUI	DE: 81° 53' 49.55"			
SUPERSTRUCTURE: DOUBLE 30'X19	'RC ARCH;55'-8 ALON	IG CENTERLINE CULVERT			
SUBSTRUCTURE:					
SPANS:					
FRACTURE CRITICAL TEMP	PORARY SHORING	SCOUR CRITICAL	SCOUR	PLAN OF ACTION	
PRESENT CONDITION: Fair		INSPECTION DATE: 05/10/	2017		
POSTED SV: Not Posted		POSTED TTST: Not Pos	sted		
OTHER SIGNS PRESENT: NONE					
			Sign noticed issued for		Number Required
			<u>NO</u>	DELINEATORS	
			NO	NARROW BRIDGE	
学会性 - 人工工			NO	ONE LANE BRIDGE	
			NO	LOW CLEARANCE	0
			INSF DIRI	ECTION OF S-N ECTION ECTION IES PLANS	
LOOKING NORTH					
INSPECTED BY TIM EARP	SIGNATURE	Tim Earp	ASSISTED BY	/ WAREN HACKLER	

Structure Element Scoring

Structure Number: 050002 Inspection Date 5/10/2017

 Element Number	Parent Number	Element Name	Location	Total Quantity	Level 1 Quantity	Level 2 Quantity	Level 3 Quantity	Level 4 Quantity
241	0	Reinforced Concrete Culvert	Culverts and Pipes	112	О	48	64	0

Summary of Maintenance Needs

Maintenance By Defect

Structure Number: 050002 Inspection Date: 05/10/2017

MMS Code	Element Name	Defect Name	Recommended Quantity
3370	Reinforced Concrete Culvert	Delamination/Spall	54 Feet
3370	Reinforced Concrete Culvert	Cracking (RC and Other)	58 Feet

Element Structure Maintenance Quantities

Structure Number: 050002 Inspection Date 05/10/2017

Location	MMS Code	Description	Maint Quantity	Total Quantity	Severe Quantity	Poor Quantity	Fair Quantity	Good Quantity
Culverts and Pipes	3370	Maintenance of NBI Culverts and Pipes	112	112	0	64	48	0

Element Condition and Maintenance Data

Structure Number: 050002 Inspection Date: 05/10/2017

Spar	n i	Culvert Se	ection					
Con	crete Arch Culve	rt						
Elem Num		Element Name	Total Qty	CS1 Qty	CS2 Qty	CS3 Qty	CS4 Qty	
241	Reinfor	ced Concrete Culvert	56	0	6	50	0 F	eet
lement lumber	Defeat Tune	Defect Des	scription		cs	CS Qty	Maint Qty	
241	Cracking (RC and Other)	EFFLO VISIBLE IN BOTTOM OF	BARREL 1 HAS 2 CRACKS WITH HEAVY RUST STAINS AND EFFLO VISIBLE IN BOTTOM OF TOP SLAB AND DOWN BOTH INTERIOR WALLS. LOCATED AT: 27' AND 39' FROM UPSTREAM END.			10	10	Feet
241	Delamination/Spall	CORNER. HAS A LARGE AREA CRACKED/DELAMINATED AND	BARREL 1 BOTTOM OF TOP SLAB AND NORTHWEST CORNER. HAS A LARGE AREA THAT IS CRACKED/DELAMINATED AND SPALLED WITH REBAR ANI HEAVY EFFLO VISIBLE. A "PM" HAS BEEN ISSUED FOR		3	20	20	Feet
241	Delamination/Spall	BARREL 1 DOWNSTREAM END HAS A LARGE AREA OF HEAVY DELAMINATION AND SPALL WITH REBAR EXPOSED. AREA IS: FULL CIRCUMFRENSE OF BARREL. A			3	20	20	Feet
241	Cracking (RC and Other)	BARREL 1 HAS SCATTERED HO CRACKS WITH HEAVY RUST S' LOCATED AT: 50' FROM UPSTR	TAINS AND EFFLO V		2	6	6	Feet

Spa	ın 2	C	Culvert Section 1						
Con	ncrete Arch Culve	rt							
	ment mber Reinfor	Element Name ced Concrete Culvert		Total Qty 56	CS1 Qty 0	CS2 Qty 42	CS3 Qty 14	CS4 Qty 0 F	eet
Elemen Numbe	Dofoot Typo		Defect Description			cs	CS Qty	Maint Qty	
241	Delamination/Spall	AND BOTTOM OF AF HEAVY SPALL AND I	REAM END OF BOTH RCH HAS SCATTERED DELAMINATION WITH IAS BEEN ISSUED FO	AREAS (REBAR	_	3	14	14	Feet
241	Cracking (RC and Other)		R WALL 1 AND 2 AND I AGONAL CRACKS WI		-	2	24	24	Feet
241	Cracking (RC and Other)	Α	R WALL 2 AND BOTTO RUST STAINS AND S			2	18	18	Feet
	General Comments								

Elements Verfied

Location	ocation Name Component		Element Name	Amount
Span 1	Culvert Section 1	Concrete Arch Culvert	Reinforced Concrete Culvert	56
Span 2	Culvert Section 1	Concrete Arch Culvert	Reinforced Concrete Culvert	56

General Inspection Notes

National Bridge and NC Inspection Items

Structure Number: 050002 Inspection Date: 05/10/2017

National Bridge Inventory Items

Item	Grade Scale	Grade
Item 58: Deck	0 - 9 , N	N
Item 59: Superstructure	0 - 9 , N	N
Item 60: Substructure	0 - 9 , N	N
Item 61: Channel and Channel Protection	0 - 9 , N	7
Item 62: Culvert	0 - 9 , N	5
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

Item	Grade Scale	Grade	Maint. Qty.	Maint. Code
Headwall	G, F, P, or C	Р	1540	4675
Wingwall	G, F, P, or C	Р	21	3350
Scour	G, F, P, or C	G		
Drift	G, F, P, or C	G	0	3366
Estimated Remaining Life	G, F, P, or C	28		

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

Inspection Information

Item	Grade Scale	Grade
Regulatory Sign Noticed Issued	YES/NO	N
Priority Maintenance Request Submitted	YES/NO	Υ
Inspection Time	Hours	6
Traffic Control Time	Hours	
Snooper Time	Hours	
Ladder Used	YES/NO	N
Bucket Truck Used	YES/NO	N
Boat Used	YES/NO	N
Other Equipment Used	YES/NO	Υ

National Bridge and NC SMU Inspection Item Details

Structure Number: 050002 Inspection Date: 05/10/2017

tem	Approach Roadway Alignment - Item 72	Grade	6	Maint Code	Qty.	0
Details	SHARP CURVE AT NORTH APPROACH.					
tem	Priority Maintenance Issued	Grade	Υ	Maint Code	Qty.	0
Details	PM'S ISSUED FOR SCATTERED SPALLS & DELAMINA WINGWALL.	ATED AR	EAS IN BA	RRELS, HEADWALLS	sou	TH EAST
tem	Other Equipment Used	Grade	Υ	Maint Code	Qty.	0
Details	BOOTS					
tem	Headwalls	Grade	Р	Maint Code 4675	Qty.	1540
Details	SCATTERED AREAS OF HEAVY SPALL & DELAMINAT	ΓΙΟΝ.				
tem	Wingwalls	Grade	Р	Maint Code 3350	Qty.	21

Details SPALL & DELAMINATED AREAS.



Barrel 1 Section 1: BARREL 1 BOTTOM OF TOP SLAB AND NORTHWEST CORNER. HAS A LARGE AREA THAT IS CRACKED/DELAMINATED AND SPALLED WITH REBAR AND HEAVY EFFLO VISIBLE. A "PM" HAS BEEN ISSUED FOR THIS CONDITION.



Barrel 1 Section 1: BARREL 1 BOTTOM OF TOP SLAB AND NORTHWEST CORNER. HAS A LARGE AREA THAT IS CRACKED/DELAMINATED AND SPALLED WITH REBAR AND HEAVY EFFLO VISIBLE. A "PM" HAS BEEN ISSUED FOR THIS CONDITION.



Barrel 1 Section 1: BARREL 1 BOTTOM OF TOP SLAB AND NORTHWEST CORNER. HAS A LARGE AREA THAT IS CRACKED/DELAMINATED AND SPALLED WITH REBAR AND HEAVY EFFLO VISIBLE. A "PM" HAS BEEN ISSUED FOR THIS CONDITION.



Barrel 1 Section 1: BARREL 1 HAS 2 CRACKS WITH HEAVY RUST STAINS AND EFFLO VISIBLE IN BOTTOM OF TOP SLAB AND DOWN BOTH INTERIOR WALLS. LOCATED AT: 27' AND 39' FROM UPSTREAM END.



Barrel 1 Section 1: BARREL 1 HAS SCATTERED HORIZONTAL AND DIAGONAL CRACKS WITH HEAVY RUST STAINS AND EFFLO VISIBLE. LOCATED AT: 50' FROM UPSTREAM END.



Barrel 1 Section 1: BARREL 1 DOWNSTREAM END HAS A LARGE AREA OF HEAVY DELAMINATION AND SPALL WITH REBAR EXPOSED. AREA IS: FULL CIRCUMFERENCE OF BARREL. A "PM" HAS BEEN ISSUED FOR THIS CONDITION.



Barrel 1 Section 1: BARREL 1 DOWNSTREAM END HAS A LARGE AREA OF HEAVY DELAMINATION AND SPALL WITH REBAR EXPOSED. AREA IS: FULL CIRCUMFERENCE OF BARREL. A "PM" HAS BEEN ISSUED FOR THIS CONDITION.



Barrel 1 Section 1: BARREL 1 DOWNSTREAM END HAS A LARGE AREA OF HEAVY DELAMINATION AND SPALL WITH REBAR EXPOSED. AREA IS: FULL CIRCUMFERENCE OF BARREL. A "PM" HAS BEEN ISSUED FOR THIS CONDITION.



SOUTHEAST WING WALL HAS A AREA OF HEAVY SPALL AND DELAMINATION WITH REBAR EXPOSED. AREA IS: $3' \times 7' \times 4''$ DEEP. A "PM" HAS BEEN ISSUED FOR THIS CONDITION.



EAST HEADWALL HAS A LARGE AREA OF HEAVY SPALL AND DELAMINATION WITH REBAR AND EFFLO EXPOSED. AREA IS: $20' \times 45'$. TOTAL MAINTENANCE QUANTITY IS: 900 SQ FEET. A "PM" HAS BEEN ISSUED FOR THIS CONDITION.



Barrel 2 Section 1: BARREL 2 INTERIOR WALL 2 AND BOTTOM OF ARCH HAS A CRACK WITH HEAVY RUST STAINS AND SOME EFFLO VISIBLE. LOCATED AT: 26' FROM UPSTREAM END.



Barrel 2 Section 1: BARREL 2 INTERIOR WALL 1 AND 2 AND BOTTOM OF ARCH HAS SCATTERED DIAGONAL CRACKS WITH HEAVY EFFLO VISIBLE.



Barrel 2 Section 1: BARREL 2 INTERIOR WALL 1 AND 2 AND BOTTOM OF ARCH HAS SCATTERED DIAGONAL CRACKS WITH HEAVY EFFLO VISIBLE.



Barrel 2 Section 1: BARREL 2 DOWNSTREAM END OF BOTH INTERIOR WALLS AND BOTTOM OF ARCH HAS SCATTERED AREAS OF HEAVY SPALL AND DELAMINATION WITH REBAR EXPOSED. A "PM" HAS BEEN ISSUED FOR THIS CONDITION.



Barrel 2 Section 1: BARREL 2 DOWNSTREAM END OF BOTH INTERIOR WALLS AND BOTTOM OF ARCH HAS SCATTERED AREAS OF HEAVY SPALL AND DELAMINATION WITH REBAR EXPOSED. A "PM" HAS BEEN ISSUED FOR THIS CONDITION.



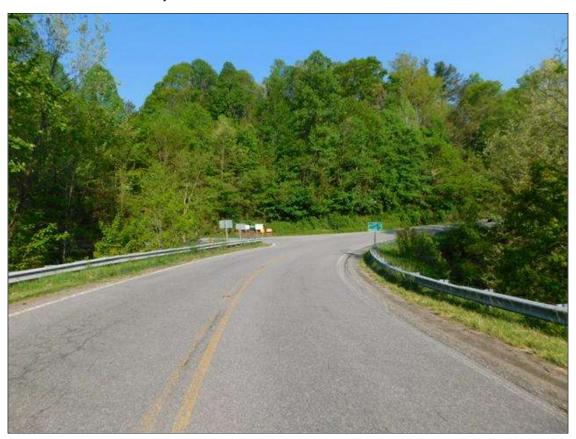
Barrel 2 Section 1: BARREL 2 DOWNSTREAM END OF BOTH INTERIOR WALLS AND BOTTOM OF ARCH HAS SCATTERED AREAS OF HEAVY SPALL AND DELAMINATION WITH REBAR EXPOSED. A "PM" HAS BEEN ISSUED FOR THIS CONDITION.



WEST HEADWALL HAS A LARGE AREA THAT IS CRACK/SPALL AND DELAMINATED WITH HEAVY EFFLO VISIBLE. AREA IS: FROM TOP EDGE DOWN 16' \times 40' LONG \times 6" DEEP. TOTAL SQ FEET IS 640. A "PM" HAS BEEN ISSUED FOR THIS CONDITION.



EXCESS SAND AND ROCKS IN BARREL 1. AREA IS: 15' x 56' x UP TO 3' HIGH. TOTAL MAINTENANCE QUANTITY IS 840' SQ FEET



LOOKING NORTH



FROM STRUCTURE LOOKING NORTH



FROM STRUCTURE LOOKING SOUTH



FROM STRUCTURE LOOKING WEST UPSTREAM



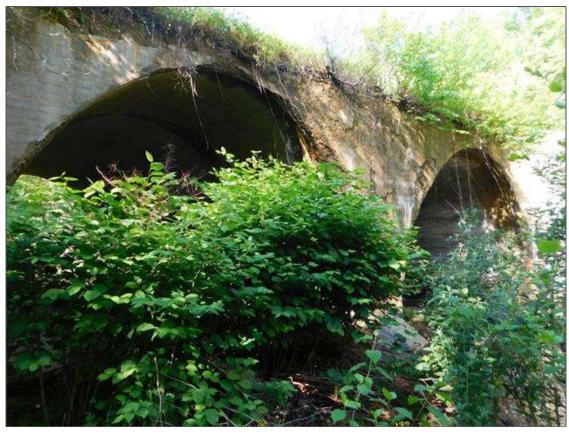
FROM STRUCTURE LOOKING EAST DOWNSTREAM



LOOKING SOUTH



WEST PROFILE



EAST PROFILE



LOOKING WEST UPSTREAM THRU BARREL 1



LOOKING WEST UPSTREAM THRU BARREL 2

NATIONAL BRIDGE INVENTORY------ STRUCTURE INVENTORY AND APPRAISAL Run Date: 05/01/2018

IDENTIFICATION -			
(1) STATE NAME -NORTH CAROLINA BRIDGE	050002	SUFFICIENCY RATING =	80.56
(8) STRUCTURE NUMBER(FEDERAL) 000	0000000110002	STATUS = Not Deficient	
(5) INVENTORY ROUTE (ON/UNDER) - ON	21003210		
(2) STATE HIGHWAY DEPARTMENT DISTRICT	2		CODE
(3) COUNTY CODE 11 (4) PLACE CODE	0	(112)NBIS BRIDGE SYSTEM -	YES
(6) FEATURE INTERSECTED - BEECH CREEK		(104)HIGHWAY SYSTEM Is on the NHS	1
(7) FACILITY CARRIED US321		(26) FUNCTIONAL CLASS - Artierial - Other	02
(9) LOCATION 50 FT.E.JCT.SR1314		(100)STRAHNET HIGHWAY - Not a STRAHNET Route	0
(11)MILEPOINT	0	(101)PARALLEL STRUCTURE - No Parallel Structure	N
(16)LAT 36° 15' 42.44" (17)LONG 81° 53' 4	9.55"	(102)DIRECTION OF TRAFFIC - 2-way Traffic	2
(98)BORDER BRIDGE STATE CODE PCT SHA	ARE	(103)TEMPORARY STRUCTURE -	
(99)BORDER BRIDGE STRUCTURE NO		(110)DESIGNATED NATIONAL NETWORK - On the National Network	1
		(20) TOLL On Free Road	3
STRUCTURE TYPE AND MATERIAL —		(31) MAINTAIN - State Highway Agency	01
(43) STRUCTURE TYPE MAIN: Concrete continuous		(22) OWNER - State Highway Agency	01
TYPE - Culverts (includes frame culverts)	CODE 219	(37) HISTORICAL SIGNIFICANCE - Not Eligible	5
(44) STRUCTURE TYPE APPR :		· ,	
TYPE -	CODE 000	CONDITION	- CODE
(45) NUMBER OF SPANS IN MAIN UNIT	2	(58) DECK	N
(46) NUMBER OF APPROACH SPANS		(59) SUPERSTRUCTURE	N
(107)DECK STRUCTURE TYPE - N	CODE	(60) SUBSTRUCTURE	N
(108)WEARING SURFACE / PROTECTIVE SYSTEM:		(61) CHANNEL & CHANNEL PROTECTION	7
(A) TYPE OF WEARING SURFACE -	CODE	(62) CULVERTS	5
(B) TYPE OF MEMBRANE -	CODE	• •	
(C) TYPE OF DECK PROTECTION -	CODE	LOAD RATING AND POSTING	
(o) THE OF BEOKT NOTEONON	0022	(31) DESIGN LOAD HS 15	3
AGE AND SERVICE		(63) OPERATING RATING METHOD - Field Evaluation and Documer	
(27) YEAR BUILT	1952	(64) OPERATING RATING - HS-19	35
(106)YEAR RECONSTRUCTED	1332	(65) INVENTORY RATING METHOD - Field Evaluation and Document	
(42) TYPE OF SERVICE : ON - Highway		(66) INVENTORY RATING - HS-15	27
	CODE 15	(70) BRIDGE POSTING - No Posting Required	5
UNDER - Waterway (28) LANES: ON STRUCTURE 2 UNDER STRUCTURE	0	(41) STRUCTURE OPEN, POSTED ,OR CLOSED	A
	1400	DESCRIPTION - Open, No Restriction	CODE
(29) AVERAGE DAILY TRAFFIC (30) YEAR OF ADT 2015 (109) TRUCK ADT PCT	14%	APPRAISAL ————————————————————————————————————	- CODE
	7 MI	(67) STRUCTURAL EVALUATION (68) DECK GEOMETRY	
(19) BYPASS OR DETOUR LENGTH	7 1011		N
GEOMETRIC DATA	20.57	(69) UNDERCLEARANCES, VERTI & HORIZ	N
(48) LENGTH OF MAXIMUM SPAN	30 FT	(71) WATERWAY ADEQUACY	7
(49) STRUCTURE LENGTH	64 FT	(72) APPROACH ROADWAY ALIGNMENT	40000
(50)CURB OR SIDEWALK: LEFT 0 FT RIGHT	0 FT	(36) TRAFFIC SAFETY FEATURES	1NNN
(51) BRIDGE ROADWAY WIDTH CURB TO CURB	0 FT	(113)SCOUR CRITICAL BRIDGES	8
(52) DECK WIDTH OUT TO OUT	0 FT	PROPOSED IMPROVEMENTS	
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)	24 FT	(75) TYPE OF WORK - CODE	≣
(33) BRIDGE MEDIAN - No Median	CODE 0	(76) LENGTH OF STRUCTURE IMPROVEMENT	
(34) SKEW 15° (35) STRUCTURE FLARED	-	(94) BRIDGE IMPROVEMENT COST	
(10) INVENTORY ROUTE MIN VERT CLEAR	999.9 FT	(95) ROADWAY IMPROVEMENT COST	
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR	24 FT	(96) TOTAL PROJECT COST	
(53) MIN VERT CLEAR OVER BRIDGE RDWY	999.9 FT	(97) YEAR OF IMPROVEMENT COST ESTIMATE	
(54) MIN VERT UNDERCLEAR REF Not a Highway or Railroad	0 FT	(114)FUTURE ADT 2800 (115) YEAR FUTURE ADT	2025
(55) MIN LAT UNDERCLEAR RT REF Not a Highway or Railroad	000 FT		
(56) MIN LAT UNDERCLEAR LT REF -	000 FT	(90) INSPECTION DATE	05/10/2017
NAVIGATION DATA		(00) 051 5 15	05/10/2017
		(92) CRITICAL FEATURE INSPECTION: (93) CFI DAT	_
	CODE 0	A) EDAOTUDE ODIT DETA!! \\\^\\\^\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
(38) NAVIGATION CONTROL - No Navigational Control	CODE 0	A) FRACTURE CRIT DETAIL - NO A)	
(38) NAVIGATION CONTROL - No Navigational Control (111)PIER PROTECTION -	CODE	B) UNDERWATER INSP - NO B)	
(38) NAVIGATION CONTROL - No Navigational Control			

BRIDGE MANAGEMENT UNIT

DATA ON EXISTING STRUCTURE

Run Date: 05/01/2018

CITY:

UNDER

0

LENGTH: COUNTY: DIVISION: DISTRICT: STRUCTURE NUMBER:

AVERY 050002 FEET

ROUTE CARRIED: FEATURE INTERSECTED:

US321 **BEECH CREEK**

LOCATED: BRIDGE NAME: 50 FT.E.JCT.SR1314

FUNC. CLASS: SYST.ON: SYST.UNDER: ADT & YR: RAIL TYPE: NFA FΑ 1400 2015 LT 0 RT 0

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

SHPWC HS 15 1952 7753

REHAB: BY: PROJ: ALIGNMENT: SKEW: LANES: TAN 75 2 ON

NAVIGATION: HT. CRN. TO BED: WATER DEPTH:

VC 28 3 0 FT HC 0 FT FT FT

SUPERSTRUCTURE: DOUBLE 30'X19'RC ARCH;55'-8 ALONG CENTERLINE CULVERT

SUBSTRUCTURE:

SPANS:

BEAMS OR GIRDERS:

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

0 FT

CLEAR ROADWAY: BETWEEN RAILS: SIDEWALK OR CURB:

0 FT 0 FT LT 0 FT RT 0 FT

VERT.CL.OVER:

999.9 FT

POSTED: INV.RTG.: OPE.RTG.: CONTR.MEMBER:

HS-15 HS-19 SV TTST DATE

SYSTEM: **GREEN LINE ROUTE:**

Primary U.S. Route Ν

UNDER ROUTES AND CLEARANCES

Bridge: 050002 County AVERY Date: 05/10/2017

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

MMS Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
3350	Maint R C Wings and Walls	SF	1	VOID	
3350	Maint R C Wings and Walls	SF	21	SOUTH EAST WINGWALL HEAVY SPALL & DELAMINATION WITH RE-BAR EXPOSED.	
<u>3350</u>	Maint R C Wings and Walls	SF	900	EAST HEADWALL HAS A LARGE AREA WITH HEAVY SPALL & DELAMINATION WITH RE-BAR & EFFLO VISIBLE. AREA IS 20' X 45'	
3350	Maint R C Wings and Walls	SF	640	WEST HEADWALL HAS A LARGE AREA THAT IS CRACKED, SPALLED & DELAMINATED WITH HEAVY EFFLO VISIBLE. AREA IS 16' X 40' X 6" DEEP.	
3370	Maintenance and Repair of NBIS Pipes and Culverts	LF	20	Barrel 1 Section 1: BARREL 1 BOTTOM OF TOP SLAB AND NORTHWEST CORNER. HAS A LARGE AREA THAT IS CRACKED/DELAMINATED AND SPALLED WITH REBAR AND HEAVY EFFLO VISIBLE. A "PM" HAS BEEN ISSUED FOR THIS CONDITION.	
3370	Maintenance and Repair of NBIS Pipes and Culverts	LF	20	Barrel 1 Section 1: BARREL 1 DOWNSTREAM END HAS A LARGE AREA OF HEAVY DELAMINATION AND SPALL WITH REBAR EXPOSED. AREA IS: FULL CIRCUMFRENSE OF BARREL. A "PM" HAS BEEN ISSUED FOR THIS CONDITION.	
3370	Maintenance and Repair of NBIS Pipes and Culverts	LF	14	Barrel 2 Section 1: BARREL 2 DOWNSTREAM END OF BOTH INTERIOR WALLS AND BOTTOM OF ARCH HAS SCATTERED AREAS OF HEAVY SPALL AND DELAMINATION WITH REBAR EXPOSED. A "PM" HAS BEEN ISSUED FOR THIS CONDITION.	



Bridge: 050002 County AVERY

MMS Descr	MMS Description						
Maint R C W	1	SF					
RCBC Culvert Bent/Span No. 1 VOID							
l	Status						
tenance	Division Maintenance Work In Pro	ocess					
ate: Submitte	ed By:	Assisted By:					
TIM EA	\RP	WARREN HACKLER					
	Maint R C Wi	Maint R C Wings and Walls ert Bent/Span No. 1 I Status tenance Division Maintenance Work In Pro	Maint R C Wings and Walls ort Bent/Span No. 1 VOID I Status tenance Division Maintenance Work In Process ate: Submitted By: Assisted By:	Maint R C Wings and Walls ort Bent/Span No. 1 VOID I Status tenance Division Maintenance Work In Process ate: Submitted By: Assisted By:			

MMS Code	MN	1S Descrip	Quantity						
3350	Mair	Maint R C Wings and Walls							
Location:									
RCBC Culve	ert		Bent/Span No. 1	REINFORCED CONCRETE CULV	/ERT				
Priority Leve	Priority Level Status								
Priority Main	Priority Maintenance Division Maintenance Work In Process								
Submitted Da	ate:	Submitte	d By:	Assisted By:					
05/11/2017		TIM EA	RP	WARREN HACKLER					
Details									
SOUTH EAS	SOUTH EAST WINGWALL HEAVY SPALL & DELAMINATION WITH RE-BAR EXPOSED.								

Bridge: 050002 County AVERY

MMS Code	MMS	Descrip	tion		Quantity				
3350	Maint F	R C Win	gs and Walls		900	SF			
Location:	Location:								
RCBC Culvert Bent/Span No. 1 REINFORCED CONCRETE CULVERT									
Priority Leve	I		Status						
Priority Main	tenance		Division Maintenance Work In Pro	ocess					
Submitted D	ate: S	Submitted	d By:	Assisted By:					
05/11/2017	٦	TIM EAF	RP	WARREN HACKLER					
Details									
	EAST HEADWALL HAS A LARGE AREA WITH HEAVY SPALL & DELAMINATION WITH RE-BAR & EFFLO VISIBLE. AREA IS 20' X 45'								

MMS Code	MMS Description							
3350	Maint R C Wings and Walls 640							
Location:								
RCBC Culve	rt	Bent/Span No. 1	REINFORCED CONCRETE CULV	/ERT				
Priority Level		Status						
Priority Maint	tenance	Division Maintenance Work In Pro	ocess					
Submitted Da	ate: Submitt	ed By:	Assisted By:					
05/11/2017	TIM E	\RP	WARREN HACKLER					
Details								
	WEST HEADWALL HAS A LARGE AREA THAT IS CRACKED, SPALLED & DELAMINATED WITH HEAVY EFFLO VISIBLE. AREA IS 16' X 40' X 6" DEEP.							

Bridge: 050002 County AVERY

MMS Code	MMS Descri	Quantity	Quantity					
3370	Maintenance	20	LF					
Location:								
		Bent/Span No.						
Priority Level								
Priority Maint	tenance	Division Maintenance Work In Process						
Submitted Da	ate: Submitte	ed By:	Assisted By:					
05/11/2017	TIM EA	RP						
Details								
IS CRACKED	Barrel 1 Section 1: BARREL 1 BOTTOM OF TOP SLAB AND NORTHWEST CORNER. HAS A LARGE AREA THAT IS CRACKED/DELAMINATED AND SPALLED WITH REBAR AND HEAVY EFFLO VISIBLE. A "PM" HAS BEEN ISSUED FOR THIS CONDITION.							

MMS Code	MN	MMS Description Quantity							
3370	Mai	Maintenance and Repair of NBIS Pipes and Culverts 20 LF							
Location:									
			Bent/Span No.						
Priority Leve	el		Status						
Priority Main	ntenan	ce	Division Maintenance Work In Pro	ocess					
Submitted D	ate:	Submitte	d By:	Assisted By:					
05/11/2017		TIM EAI	RP						
Details									
WITH REBA	Barrel 1 Section 1: BARREL 1 DOWNSTREAM END HAS A LARGE AREA OF HEAVY DELAMINATION AND SPALL WITH REBAR EXPOSED. AREA IS: FULL CIRCUMFRENSE OF BARREL. A "PM" HAS BEEN ISSUED FOR THIS CONDITION.								

Bridge: 050002 County AVERY

MMS Code	MMS	MMS Description Quantity						
3370	Mainte	Maintenance and Repair of NBIS Pipes and Culverts 14 LF						
Location:								
			Bent/Span No.					
Priority Leve	el .		Status					
Priority Main	Priority Maintenance Division Maintenance Work In Process							
Submitted D	ate: S	ubmitted	d By:	Assisted By:				
05/11/2017	٦	TIM EAF	RP					
Details								
SCATTERE	Barrel 2 Section 1: BARREL 2 DOWNSTREAM END OF BOTH INTERIOR WALLS AND BOTTOM OF ARCH HAS SCATTERED AREAS OF HEAVY SPALL AND DELAMINATION WITH REBAR EXPOSED. A "PM" HAS BEEN ISSUED FOR THIS CONDITION.							



SOUTH EAST WINGWALL HEAVY SPALL & DELAMINATION WITH RE-BAR WXPOSED AREA IS 3' X 7' X 4" DEEP



EAST HEADWALL HAS A LARGE AREA WITH HEAVY SPALL & DELAMINATION WITH RE-BAR & EFFLO EXPOSED. AREA IS 20' X 45' X 3" DEEP.



WEST HEADWALL HAS A LARGE AREA THAT IS CRACKED, SPALLED & DELAMINATED WITH RE-BAR & EFFLO EXPOSED. AREA IS 16' X 40' X 6" DEEP.

Culvert Segment Details

Has Bands?: No Distance From Upstream End to Edge of Pavement: 15ft Barrel 1 # of Long. Bolt Rows Transverse Spacing b/w Bolt Rows (ft) Corrugation Pattern Pipe Thickness (in) Distance From Upstream End of Segment (ft) Longitudinal Bolt Spacing (ft) Bolt Diameter (in) Rib Spacing (ft) Top Radius (ft) Leg Length (ft) Rib Length (ft) **Bolt Condition Bolt Material** Height (ft) Width (ft) Material Upstream 19 30 Arch Concrete . End 55.667 30 Arch Downstream 19 Concrete End

Barrel 2			Has	Bands	?: No		Dista	ance Fr	om Ups	strea	m End t	o Edge d	of Pave	ement:	15ft		
	Distance From Upstream End of Segment (ft)	Width (ft)	Height (ft)	Pipe Thickness (in)	Corrugation Pattern	Leg Length (ft)	Top Radius (ft)	Bolt Material	Bolt Diameter (in)	# of Long. Bolt Rows	Transverse Spacing b/w Bolt Rows (ft)	Longitudinal Bolt Spacing (ft)	Bolt Condition	Rib Length (ft)	Rib Spacing (ft)	Туре	Material
Upstream End	1	30	19													Arch	Concrete
Downstream End	55.667	30	19													Arch	Concrete

Bridge Inspection Field Sketch

VERIFIED 5/4/15 A. GLASCO, B. DAY



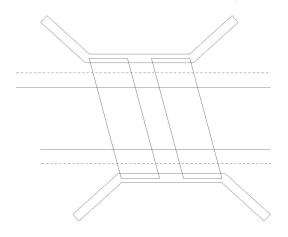
Roadway	24ft Wide	2 Paved Lanes	Looking North
Left Shoulder	3ft Wide		3ft Unpaved
Right Shoulder	3ft Wide		3ft Unpaved
Left Guardrail	3ft from road		-
Right Guardrail	3ft from road		

VERIFIED BY TSE 5/10/17

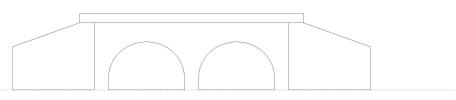
Title		Description			
APPR. ROADWAY		aprw			
Bridge No: 050002	Drawn By: G.R.R		Date: 05/02/2005	File Name: \$0130000009	

Bridge Inspection Field Sketch

VERIFIED 5/4/15 A. GLASCO, B. DAY



Crown of Roadway



Bed

Looking Downstream

Number of Barrels	Skew	Distance From Crown to Bed	Fill Depth		
2	75°	28ft	9ft		
Length Along Center Line of Pip	ре	Length Along Center Line of Roadway			
55.667ft		64ft			

Barrel #	Width	Height	Distance Fron	Scour at Outlet	Туре
			Previous Pipe		
1	30ft	19ft			Arch
2	30ft	19ft	2.5ft		Arch

SPEED LIMIT = 55 MPH, 2 LANE HIGHWAY LEFT EOP TO GUARDRAIL = 4', GUARDRAIL TO HEADWALL = 11' RIGHT EOP TO GUARDRAIL = 5', GUARDRAIL TO HEADWALL = 9' GUARDRAIL = YES MAIN WATER FLOW THROUGH BARREL 2

WATER DEPTH 6" UP TO 48"

UPDATED BY TSE 5/11/17

Title		Description			
CULVERT		CULVERT			
Bridge No: 050002	Drawn By: DCW		Date: 05/02/2007	File Name: S0126001572	