



N.C. DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 BRIDGE MAINTENANCE UNIT

Attention:

BRIDGE INSPECTION REPORT

TYPE OF INSPECTION Routine

COUNTY CLEVELAND BRIDGE NUMBER 220015 INSPECTION CYCLE 2 YRS

ROUTE NC180 ACROSS SEABOARD COAST LINE R.R. M.P. 0

LOCATION 0.3 MI. N. JCT. NC150

SUPERSTRUCTURE REINFORCED CONCRETE DECK ON I-BEAMS

SUBSTRUCTURE ABUTMENTS:RC STUB,INTERIOR BENTS:RC POST & BEAM

1 at 47.50 ft., 1 at 57.50 ft.

SPANS **1@47'6, 1@57'6**

LONGITUDE 81° 29' 40.1"

LATITUDE 35° 18' 59.9"

PRESENT CONDITION FAIR

INVENTORY RATING HS 13

INSPECTION DATE 10/03/2006

OPERATING RATING HS 22

PRESENT POSTING SV 35 TTST 39

PROPOSED POSTING SV: 33 TONS
TTST: 30 TONS

COMPUTER UPDATE 2-13-07

ANALYSIS DATE 7-1-04

POSTING LETTER DATE _____

SUFFICIENCY RATING _____

OTHER SIGNS PRESENT _____



Photo Looking **LOOKING NORTH**

SIGN NOTICE ISSUED FOR	NUMBER REQUIRED
No WEIGHT LIMIT	_____
No DELINEATORS	_____
No NARROW BRIDGE	_____
No ONE LANE BRIDGE	_____
No LOW CLEARANCE	_____

***** IDENTIFICATION *****

(1) STATE NAME - NORTH CAROLINA BRIDGE 220015
(8) STRUCTURE NUMBER (FEDERAL) 000000000450015
(5) INVENTORY ROUTE (ON/UNDER) - ON = 131001800
(2) STATE HIGHWAY DEPARTMENT DISTRICT 12
(3) COUNTY CODE 045 (4) PLACE CODE
(6) FEATURES INTERSECTED - SEABOARD COAST LINE R.R.
(7) FACILITY CARRIED - NC180
(9) LOCATION - 0.3 MI. N. JCT. NC150
(11) MILEPOINT 000.000
(16) LAT 35 D 18 M 59.9S (17) LONG 081 D 29 M 40.1S
(98) BORDER BRIDGE STATE CODE PCT SHARE
(99) BORDER BRIDGE STRUCTURE NO. #

SUFFICIENCY RATING = 49.1
STATUS = FUNCTIONALLY OBSOLETE

***** STRUCTURE TYPE AND MATERIAL *****

***** CLASSIFICATION ***** CODE

(43) STRUCTURE TYPE MAIN: STEEL
TYPE - STRINGER/MBEAM OR GIRDER CODE 302
(44) STRUCTURE TYPE APPR: OTHER
TYPE - OTHER CODE 000
(45) NUMBER OF SPANS IN MAIN UNIT 002
(46) NUMBER OF APPROACH SPANS 0000
(107) DECK STRUCTURE TYPE - CONCRETE C-I-P CODE 1
(108) WEARING SURFACE / PROTECTIVE SYSTEM:
A) TYPE OF WEARING SURFACE - CONCRETE CODE 1
B) TYPE OF MEMBRANE - NONE CODE 0
C) TYPE OF DECK PROTECTION - NONE CODE 0

(112) NBIS BRIDGE LENGTH - YES
(104) HIGHWAY SYSTEM - NON NHS ROUTE 0
(26) FUNCTIONAL CLASS - MINOR ARTERIAL 06
(100) DEFENSE HIGHWAY - NOT DEFENSE HWY 0
(101) PARALLEL STRUCTURE - NONE EXISTS N
(102) DIRECTION OF TRAFFIC - 2-WAY TRAFFIC 2
(103) TEMPORARY STRUCTURE - NOT TEMPORARY
(110) DESIGNATED NATIONAL NETWORK - NOT PART OF 0
(20) TOLL - ON FREE ROAD 3
(21) MAINTAIN - STATE HIGHWAY AGENCY 01
(22) OWNER - STATE HIGHWAY AGENCY 01
(37) HISTORICAL SIGNIFICANCE - NOT ELIGIBLE 5

***** AGE AND SERVICE *****

***** CONDITION ***** CODE

(27) YEAR BUILT 1950
(106) YEAR RECONSTRUCTED 0000
(42) TYPE OF SERVICE: ON - HIGHWAY
UNDER - RAILROAD CODE 12
(28) LANES: ON STRUCTURE 02 UNDER STRUCTURE 00
(29) AVERAGE DAILY TRAFFIC 010000
(30) YEAR OF ADT 2005 (109) TRUCK ADT PCT 08
(19) BYPASS, DETOUR LENGTH 03 MI

(58) DECK 5
(59) SUPERSTRUCTURE 5
(60) SUBSTRUCTURE 7
(61) CHANNEL & CHANNEL PROTECTION N
(62) CULVERTS N

***** GEOMETRIC DATA *****

***** LOAD RATING AND POSTING ***** CODE

(48) LENGTH OF MAXIMUM SPAN 0058 FT
(49) STRUCTURE LENGTH 000105 FT
(50) CURB OR SIDEWALK: LEFT 01.0 FT RIGHT 01.0 FT
(51) BRIDGE ROADWAY WIDTH CURB TO CURB 024.0 FT
(52) DECK WIDTH OUT TO OUT 025.4 FT
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS) 023 FT
(33) BRIDGE MEDIAN - NO MEDIAN CODE 0
(34) SKEW 00 DEG (35) STRUCTURE FLARED NO
(10) INVENTORY ROUTE MIN VERT CLEAR 99 FT 99 IN
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR 24.0 FT
(53) MIN VERT CLEAR OVER BRIDGE RDWY 99 FT 99 IN
(54) MIN VERT UNDERCLEAR REF - RAILROAD 34 FT 01 IN
(55) MIN LAT UNDERCLEAR RT REF - RAILROAD 08.0 FT
(56) MIN LAT UNDERCLEAR LT 00.0 FT

(31) DESIGN LOAD - H 15 2
(64) OPERATING RATING - LF HS-22 139
(66) INVENTORY RATING - LF HS-13 123
(70) BRIDGE POSTING - POSTING REQUIRED 4
(41) STRUCTURE OPEN, POSTED, OR CLOSED P
DESCRIPTION - POSTED FOR LOAD

***** NAVIGATION DATA *****

***** APPRAISAL ***** CODE

(38) NAVIGATION CONTROL - N.A., NO WATERWAY CODE N
(111) PIER PROTECTION - NOT APPLICABLE CODE
(39) NAVIGATION VERTICAL CLEARANCE 000 FT
(116) VERT-LIFT BRIDGE NAV MIN VERT CLEAR FT
(40) NAVIGATION HORIZONTAL CLEARANCE 0000 FT

(67) STRUCTURAL EVALUATION 5
(68) DECK GEOMETRY 2
(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL 4
(71) WATERWAY ADEQUACY N
(72) APPROACH ROADWAY ALIGNMENT 8
(36) TRAFFIC SAFETY FEATURES 0111
(113) SCOUR CRITICAL BRIDGES N

***** PROPOSED IMPROVEMENTS *****

(75) TYPE OF WORK - REPLACE FOR DEFICIENCY CODE 311
(76) LENGTH OF STRUCTURE IMPROVEMENT 000105 FT
(94) BRIDGE IMPROVEMENT COST \$ 312,000
(95) ROADWAY IMPROVEMENT COST \$ 78,000
(96) TOTAL PROJECT COST \$ 468,000
(97) YEAR OF IMPROVEMENT COST ESTIMATE 2007
(114) FUTURE ADT 011390 (115) YEAR FUTURE ADT 2025

***** INSPECTIONS *****

(90) INSPECTION DATE 10/2006 (91) FREQUENCY 24 MO
(92) CRITICAL FEATURE INSPECTION: (93) CFI DATE
A) FRACTURE CRIT DETAIL - NO - MO A)
B) UNDERWATER INSP - NO - MO B)
C) OTHER SPECIAL INSP - NO - MO C)
SCOUR - NOT EVALUATED

BRIDGE INSPECTION RECORD AND SUMMARY

INSPECTION TYPE ROUTINE

BRIDGE NO. 220015 COUNTY CLEVELAND ROUTE NC180

OVER SEABOARD COAST LINE R.R.

STRUCTURE TYPE REINFORCED CONCRETE DECK ON I-BEAMS

ROUTE ORIENTATION S - N

SPANS 1@47'6, 1@57'6

EVALUATION CODE : 0 -2 CRITICAL, 3 & 4 POOR, 5 & 6 FAIR, 7 -9 GOOD

INSPECTION ITEM			ITEM 61		
DECK ITEMS		GRADES	45 CHANNEL & CHANNEL PROT.	a. WATERWAY	
1. WEARING SURFACE				b. ALIGNMENT	
2 DECK NO. OF EA TYPE SPN GRADE RATES SI & A ITEM 58	a. CONCRETE	2	5	c. SCOUR	
	b. TIMBER			d. SLOPE PROT., RIP-RAP, DIKES, ETC.	
	c. STEEL PLANK			50 APPROACH ROADWAY CONDITION	
	d. OPEN GRID			51 APPROACH SLABS	
3 RAILING	a. CONCRETE		7	52 PAINT SYSTEM	CODE A 5
	b. TIMBER			53 UTILITIES	
	c. ALUMINUM			54 RESPONSE TO LIVE LOAD	
	d. STEEL			55 ESTIMATED REMAINING LIFE	
4. CURBS, WHEELGUARDS, PARAPETS, MEDIANS			6		
5. WALKWAYS (ON OR ATTACHED TO STRUCTURE)				60 REGULATORY SIGN NOTICE ISSUED	
6. DECK EXP JTS. OR DEVICES. NO OF EACH	a. STEEL PL OR FINGER			61 PROMPT-ACTION NOTICE ISSUED	
	b. MISC PREFAB DEVICES			62 PRESENTLY POSTED	
	c. COMPRESSION SEAL			63 TOT. FIELD INSP TIME (INCLUDE WRITE UP)(M/H)	
	d. STANDARD JOINTS	1	6	64 TOTAL SNOOPER INSP. TIME (HRS)	
	e. OPEN JOINTS			65 TOTAL TRAFFIC CONTROL TIME (M/H)	
7. DECK DEBRIS (INCLUDE EXCESS SAND/GRAVEL)			7		
70 SI&A GENERAL CONDITION RATINGS					
SUPER STR. (FM. 1 (90)B TRUSS) ITEM 59				a. DECK	ITEM 58 5
10. LONGITUDINAL BEAMS OR GIRDERS			5	b. SUPERSTRUCTURE	ITEM 59 5
11. LONGITUDINAL JOIST OR STRINGERS				c. SUBSTRUCTURE	ITEM 60 7
12. INT. DIAP'S, X-FRAMES, BRACING & CONN'S			7	d. CHANNEL & CHANNEL PROT.	ITEM 61 NA
13. END DIAP'S, CURTAIN WALLS, & CONN'S			5		
71 SI&A FIELD APPRAISAL RATINGS					
14. FLOOR BEAMS AND CONNECTIONS				a. WATERWAY ADAQUACY	NA
15. BEARING ASSEMBLIES (INCLUDE MISALIGN)			6	b. APPR. RDWY. ALIGNMENT	8
16. DRAINAGE SYSTEM (ON STRUCTURE)			7		
17. MOVABLE SPAN MACHINERY					
				72 FIELD SCOUR EVALUATION	N
SUB STR. ITEMS. ITEM 60 (INCLUDE SCOUR)					
35. TIM SUB STR.	a. ABUT. & INT. BENT CAPS & RISERS			USE OF INSP. ACCESSIBILITY EQUIPMENT	
	b. PILES, POST, SILLS, & BRACING			SNOOPER (CODE P, S, 4, OR N)	No No
	c. BULKHEADS, WING'S & TIE BACKS			LADDER	No
36. CONC SUB STR.	a. ABUT. & INT. BENT CAPS		7	OVERSIDE LADDER	
	b. ABUT. & BENT COL'S BREASTWALLS		7	BUCKET TRUCK	
	c. ABUT. & INT. BENT PILES			BOAT	
	d. BACKWALLS, WING'S, RETAIN. WLLS		7	OTHER	
	e. ABUT. & BENT FOOTINGS & SILLS				
37 STEEL SUB STR	a. ABUT. & INT. BENT CAPS & RISERS			SPECIAL INSPECTION REQUESTED FOR	
	b. PILES, BRACING, AND BULKHEADS				
38 FOUNDATION PILES TYPE MATERIAL				NOTE	
39. SLOPE PROT., RIP-RAP (INCLUDE DRAINAGE)					
40 FENDER SYSTEMS				80 INSPECTED BY:	
41 DRIFT				81 REVIEWED BY	

State of North Carolina
 Dept. of Transportation
 Division of Highways

FIELD INSPECTION REPORT

Bridge Inspection & Analysis

Team Leader: RDE

Assisted by: MTC

Item No	Grade	
2a	5	HORIZONTAL CRACKS UP TO 1/16 INCH ARE PRESENT 1 FOOT FROM EACH FILL FACE AND 1 FOOT ON EITHER SIDE OF THE INTERIOR BENT JOINT. HAIRLINE TRANSVERSE CRACKS ARE PRESENT ELSEWHERE IN RANDOM LOCATIONS AT APPROXIMATELY 7 TO 10 FOOT SPACING AND FULL WIDTH ACROSS THE DECK. A 5 FOOT LONG BY 3 FOOT WIDE DECK PATCH WITH EXPOSED COARSE AGGREGATE AND EXPOSED REINFORCEMENT EXISTS AT THE NORTHEAST CORNER. RANDOM POPOUTS WITH EXPOSED COARSE AGGREGATE AND DECK SCALE ARE PRESENT THROUGHOUT. A 3.5 FOOT LONG BY 2 FOOT WIDE AREA OF DELAMINATION IS PRESENT IN THE WEST SIDE OF SPAN 2. DECK SCALE AND DELAMINATION ARE MAXIMIZED ALONG THE PARAPETS. THE DECK OVERHANGS EXHIBIT MINOR SPALLING WITH EXPOSED REINFORCEMENT ON THE UNDERSIDE. NO VISIBLE CRACKING OR EFFLORESCENCE IS NOTED IN THE SPAN 1 OR SPAN 2 BAYS.
3a	7	THE CONCRETE RAILS SHOW MINOR CHIPPING AND SPALLING THROUGHOUT. SPALLS EXIST PRIMARILY AT THE GUARDRAIL TERMINATION CONNECTIONS.
4	6	MINOR HAIRLINE VERTICAL CRACKING IS PRESENT IN THE PARAPETS WITH RANDOM CHIPS AND SPALLS ALONG THE FACES. NO DISTRESS IS NOTED OTHERWISE.
6d	6	THE JOINT IS SEALED WITH TAR ON THE TOPSIDE. BEAM END RUST, BEARING RUST, AND STAINING ON THE CAP INDICATE THE JOINT IS LEAKING. MOST OF THE JOINT MATERIAL HAS FALLEN OUT AND IS ON THE INTERIOR BENT CAP.
7	7	SEDIMENT IS PRESENT ALONG BOTH PARAPETS
10	5	RUSTING AND MINOR PAINT FAILURE IS PRESENT THROUGHOUT BEAM SPANS. RUSTING AND SECTION LOSS ARE MAXIMIZED AT THE BEAM ENDS AND BEARING AREAS. SEE TABLE FOR AMOUNT OF SECTION LOSS IN EACH BEAM.
12	7	THE INTERMEDIATE DIAPHRAGMS SHOW MINOR PAINT FAILURE BUT NO SECTION LOSS IS NOTED.
13	5	THE END DIAPHRAGMS OVER BENT 1 SHOW HORIZONTAL CRACKING UP TO 1/8 INCH AND SPALLING WITH EXPOSED REINFORCEMENT THROUGHOUT. IMMINENT SPALLS ARE PRESENT IN OTHER LOCATIONS. THE CURTAIN WALLS HAVE MINOR POPOFFS AND SPALLS AT THE BEAM CONNECTIONS.
15	6	THE BEARINGS SHOW MODERATE RUSTING WITH NEGLIGIBLE SECTION LOSS PARTICULARLY OVER BENT 1.
16	7	DECK DRAINAGE FLOWS UNDER THE PARAPETS AND APPEARS ADEQUATE WITH NO OBSTRUCTIONS.
36a	7	HAIRLINE TO 1/16 INCH VERTICAL CRACKS ARE PRESENT ON THE ABUTMENT AND INTERIOR BENT CAPS IN RANDOM LOCATIONS. STAINING DUE TO JOINT LEAKAGE EXISTS ON THE CAPS. OTHERWISE, THE CAPS ARE SOUND WITH NO DISTRESS NOTED.
50	6	SEVERAL TRANSVERSE CRACKS UP TO 1/8 INCH ARE PRESENT AT THE SOUTH FILL FACE. A POTHOLE 1 FOOT IN DIAMETER IS PRESENT AT THE CENTERLINE IN THE SOUTH APPROACH. A SIMILAR CONDITION IS EVIDENT IN THE NORTH APPROACH. THE ASPHALT WEARING SURFACE IS BREAKING AWAY FROM THE DECK EDGE.

Item No	Grade	
52	5	MODERATE PAINT FAILURE IS PRESENT THROUGHOUT THE BEAMS WITH THE WORST CONDITION OCCURRING AT THE BEARING AREAS.

BRIDGE INSPECTOR'S RECOMMENDATION FOR MAINTENANCE REPAIRS

Bridge 220015

County CLEVELAND

Date 10/03/2006

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

Function Code	Description of Function	Unit	Quantity	Remarks	Est. Cost
552	Complete Cleaning and painting of structural steel	Sq-ft	3380	RUST AND SECTION LOSS ON BEAMS	
556	Bridge approaches, surfacing or pavement replacement or repair	Man-Hours	60	CRACKING AND POTHOLES IN APPROACHES	
560	Maintenance and repairs to concrete bridge floors	Sq-ft	2520	CRACKING, POPOUTS, DELAMINATION, AND EXPOSED REINFORCEMENT IN DECK	
576	Maintenance of standard deck expansion joints	Lin-ft	26	DETERIORATED AND LEAKING JOINT	
578	General Maintenance of superstructure	Man-Hours	200	SPALLING WITH EXPOSED REINFORCEMENT IN BENT 1 END DIAPHRAGMS	

Bridge #: 220015

County: CLEVELAND

Date: 10/03/2006

Condition Photos



SETTLEMENT CRACKING IN SOUTH APPROACH



TRANSVERSE DECK CRACK AT SOUTH END OF BRIDGE



DECK DELAMINATION AT SOUTHWEST CORNER



TRANSVERSE DECK CRACK AT MIDSPAN OF SPAN 1



TRANSVERSE DECK CRACKS ALONG INTERIOR BENT JOINT



DECK DELAMINATION AT NORTHWEST CORNER



DECK DELAMINATION AT NORTHEAST CORNER



DECK DELAMINATION ALONG WEST CURB IN SPAN 2

Bridge #: 220015

County: CLEVELAND

Date: 10/03/2006

Condition Photos



CRACKING ALONG NORTH APPROACH



BEAM END RUST AT BENT 1 ON GIRDER 4



BEAM END RUST ON GIRDER 4 AT END BENT 2



TRANSVERSE DECK CRACK AT NORTH END OF BRIDGE



SPALLED END DIAPHRAGM IN BAY 2 OVER BENT 1



SPALLED NORTH FACE OF INTERIOR BENT LOWER STRUT



VERTICAL CRACK ON NORTH FACE OF INTERIOR BENT COLUMN 2



VERTICAL CRACK ON NORTH FACE OF INTERIOR BENT COLUMN 1



SPALLING ALONG WEST OVERHANG IN SPAN 2



SLOPE EROSION AT SOUTHWEST CORNER UNDER SPAN 1



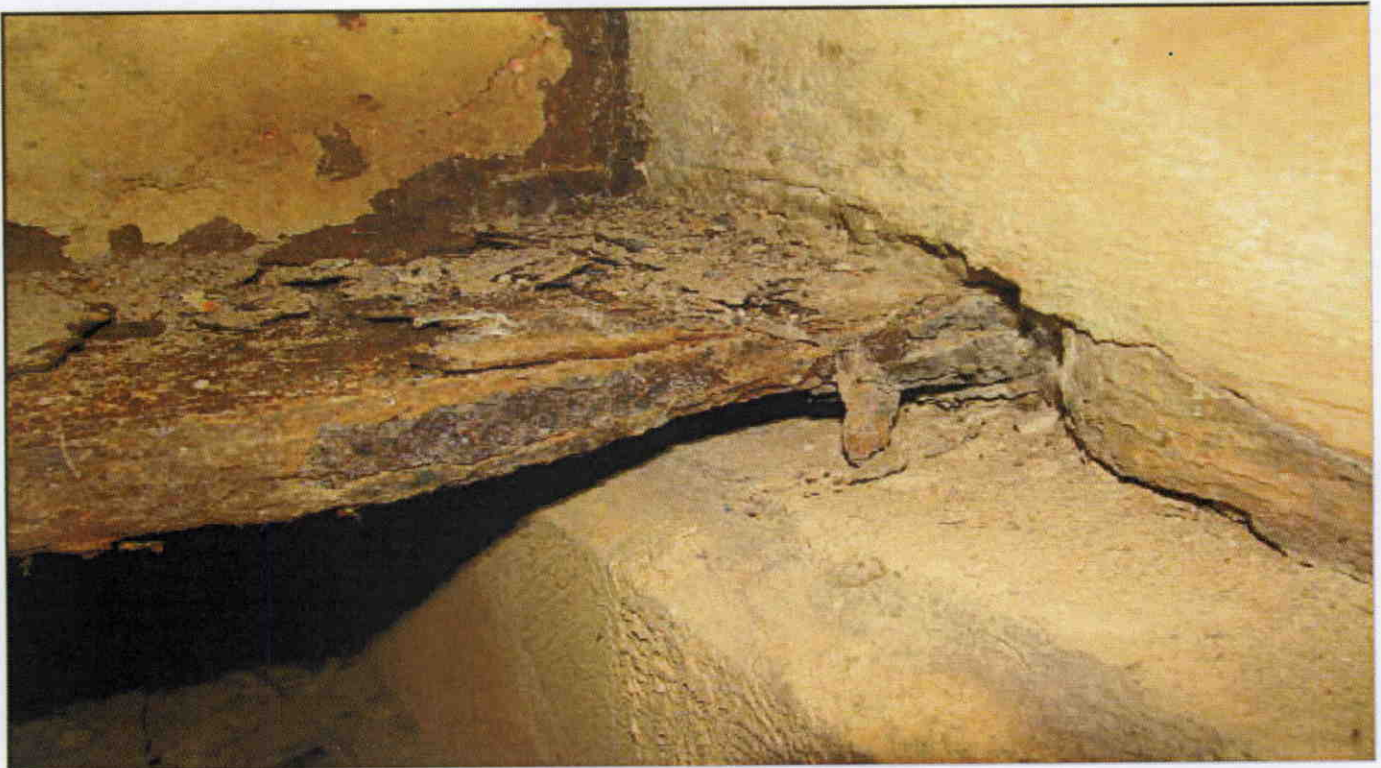
CRACKED END DIAPHRAGM IN BAY 3 OF SPAN 1 OVER BENT 1



SECTION LOSS AT GIRDER 1 BEAM ENDS OVER BENT 1



DIAGONAL CRACK ALONG WEST RAIL IN SPAN 2



GIRDER 4 SECTION LOSS AT END BENT 2 CURTAIN WALL

B80028

BRIDGE MAINTENANCE UNIT
DATA ON EXISTING STRUCTURE

RUN DATE 02/13/07

COUNTY: DIV.: DIST.: STRUCTURE NUMBER: LENGTH:
CLEVELAND 12 1 22 0015 105 FEET

ROUTE CARRIED: FEATURE INTERSECTED:
NC180 SEABOARD COAST LINE R.R.

LOCATED: BRIDGE NAME:
0.3 MI. N. JCT. NC150 -----

FUNC. CLASS: SYST.ON: SYST.UNDER: ADT & YR: RAIL TYPE:
MAR FA ----- 10000 05 LT 181 RT 181

BUILT: BY: PROJ: FED.AID PROJ: DESIGN LOAD:
1950 SHPWC 9-9-80-20 ----- H-15

REHAB: BY: PROJ: ALIGNMENT: SKEW: LANES:
----- TAN 090 ON 02 UNDER 00

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

SUPERSTRUCTURE:
REINFORCED CONCRETE DECK ON I-BEAMS

SUBSTRUCTURE:
ABUTMENTS:RC STUB, INTERIOR BENTS:RC POST & BEAM

SPANS:
1@47'6, 1@57'6

BEAMS OR GIRDERS:
4 LINES OF I-BEAMS @ 6'9 CENTERS, SP1:W30X116, SP2:W33X141

FLOOR: ENCROACHMENTS: DECK (OUT TO OUT):
6.75 RC SLAB ----- 025.4

CLEAR ROADWAY: BETWEEN RAILS: SIDEWALK OR CURB:
024.0 026 .0 LT 01.0 RT 01.0

VERT.CL.OVER: VERT.CL.UNDER: HOR.CL.UNDER: SPECIAL PERMIT:
99 FT 99 IN 34 FT 01 IN 00.0 FT ---

INV.RTG.: OPE.RTG.: CONTR.MEMBER: POSTED:
HS- 13 HS- 22 BEAM INT. SV 33 TTST 36 DATE 09 05 2006

SYSTEM: GREEN LINE ROUTE:
4 PRIMARY NO

2ND OPENING: 3RD OPENING: 4TH OPENING: 5TH OPENING:

REMARKS:

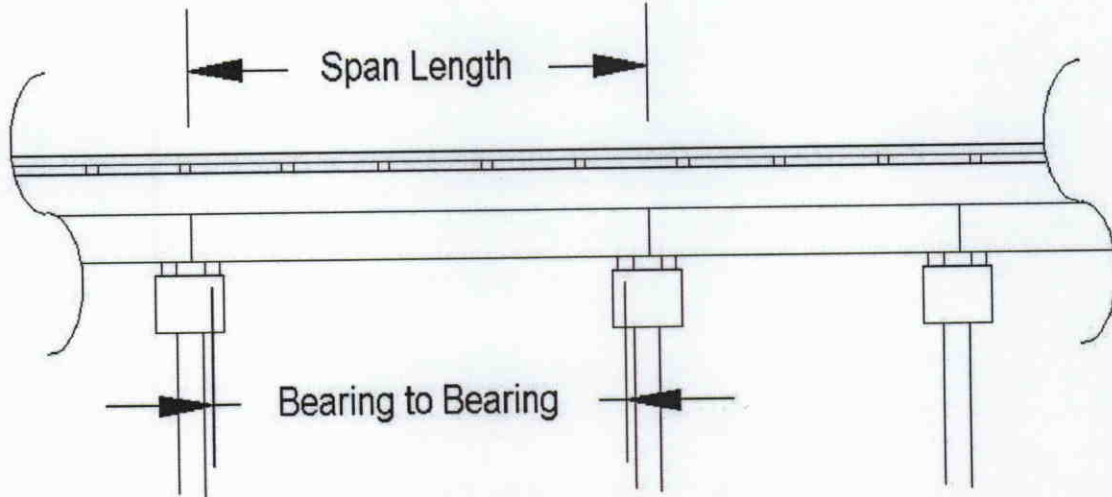
Structure Data Worksheet

Bridge #: 220015

County: CLEVELAND

Date: 10/03/2006

By: RDE



Span	Length	Brg to Brg	Comments
1	47.50	SEE PLANS	
2	57.50	SEE PLANS	

Bridge Inspection Field Sketch



Roadway	22.50ft Wide	2 Paved Lanes	Looking North
Left Shoulder	3ft Wide		3.00ft Unpaved
Right Shoulder	3ft Wide		3.00ft Unpaved
Left Guardrail	3.00ft from road		
Right Guardrail	3.00ft from road		

Title
APPROACH ROADWAY

Description
APPROACH ROADWAY

Bridge No: 220015

Drawn By: SJP

Date: 10/02/2006

File Name: S0290003790

Bridge Inspection Field Sketch

GIRDER	LOCATION	SPAN	REMAINING FLANGE SECTION	FLANGE SECTION LOSS
1	END BENT 1	1	13/16	1/16
2	END BENT 1	1	7/8	0
3	END BENT 1	1	7/8	0
4	END BENT 1	1	7/8	0
1	BENT 1	1	3/4	1/8
2	BENT 1	1	13/16	1/16
3	BENT 1	1	13/16	1/16
4	BENT 1	1	3/4	1/8
1	BENT 1	2	7/8	1/8
2	BENT 1	2	15/16	1/16
3	BENT 1	2	15/16	1/16
4	BENT 1	2	7/8	1/8
1	END BENT 2	2	7/8	1/8
2	END BENT 2	2	15/16	1/16
3	END BENT 2	2	1	0
4	END BENT 2	2	1/2	1/2

NOTE: ALL GIRDERS HAVE UP TO 1/16" WEB SECTION LOSS AT BENT 1
 NOTE: GIRDERS IN SPAN 1 HAD ORIGINAL FLANGE THICKNESS OF 7/8"
 NOTE: GIRDERS IN SPAN 2 HAD ORIGINAL FLANGE THICKNESS OF 1"

Title

BEAM SECTION LOSS

Description

SECTION LOSS AT BEAM ENDS

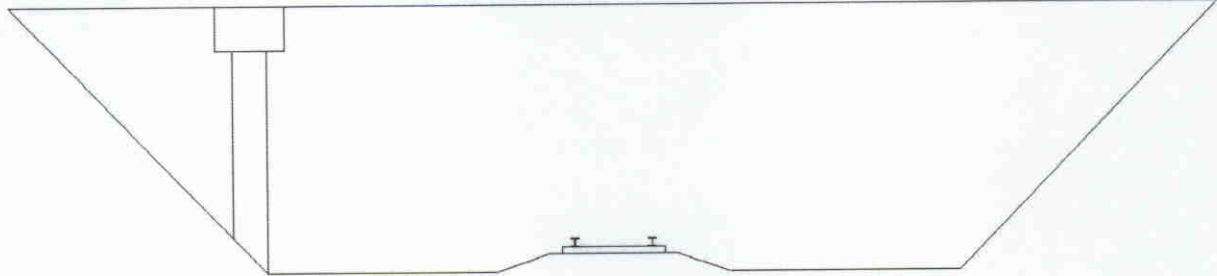
Bridge No: 220015

Drawn By: SJP

Date: 10/02/2006

File Name: S0290003882

Bridge Inspection Field Sketch



Measurements Under Span 2

Rail to Rail	5.00ft	1 set(s) of tracks	Looking: WEST
Vertical Clearance	34.08ft	Measured from rail 2 at Beam # 1	
Distance to Left Bent	8.00ft		
Distance to Left Toe of Slope			
Distance to Right Bent			
Distance to Right Toe of Slope	13.00ft		

Title

RAILROAD UNDERCLEARANCE

Description

RAILROAD UNDERCLEARANCE

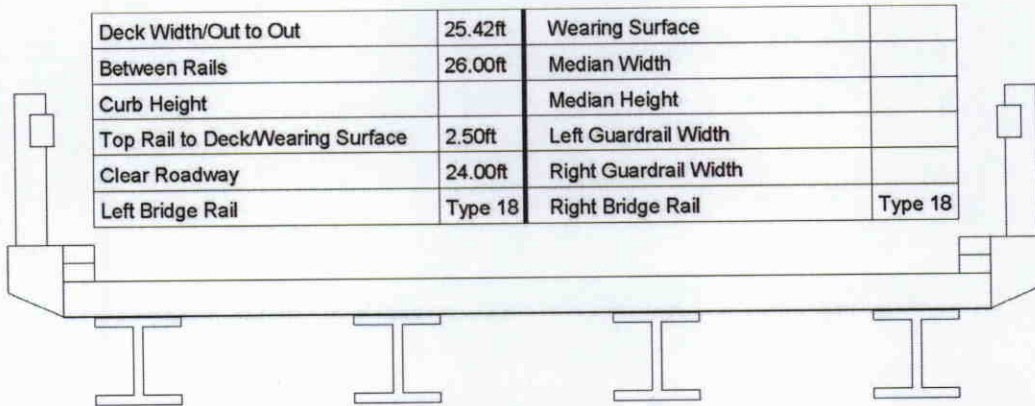
Bridge No: 220015

Drawn By: SJP

Date: 08/08/2006

File Name: S0290003792

Bridge Inspection Field Sketch



Measurements for Span #	1	SPAN 2 SIMILAR	
Deck Thickness	0.56	Left Overhang	2.58
Top of Rail to Bottom of Beam		Right Overhang	2.58

Beam No	Beam Type	Spacing	Comments
1	Steel I Beam	6.75ft	SEE PLANS FOR BEAM SIZE
2	Steel I Beam	6.75ft	SEE PLANS FOR BEAM SIZE
3	Steel I Beam	6.75ft	SEE PLANS FOR BEAM SIZE
4	Steel I Beam		SEE PLANS FOR BEAM SIZE

Title

TYPICAL SECTION

Description

TYPICAL SECTION

Bridge No: 220015

Drawn By: SJP

Date: 10/02/2006

File Name: S0290003791

Bridge #: 220015

County: CLEVELAND

Date: 10/03/2006

Structure Photos



LOOKING NORTH



LOOKING SOUTH

Bridge #: 220015

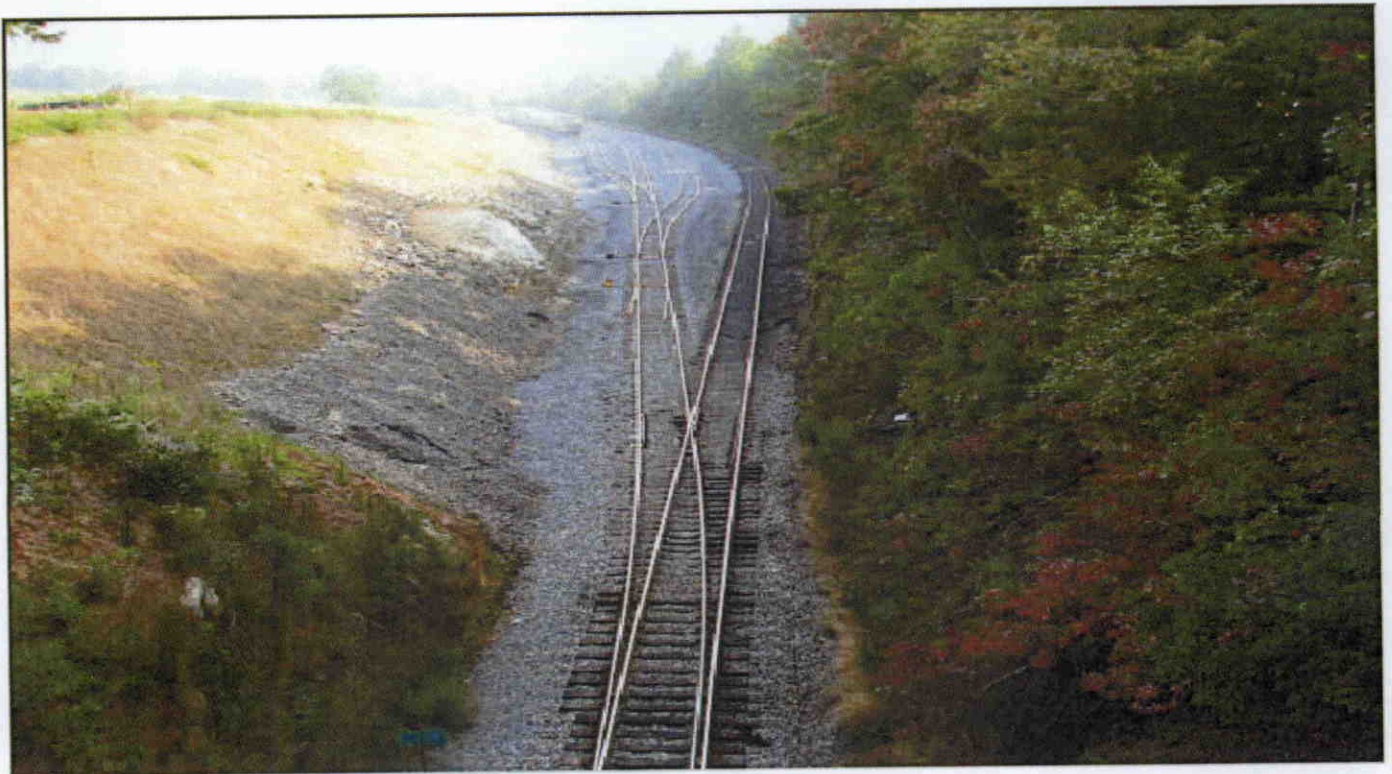
County: CLEVELAND

Date: 10/03/2006

Structure Photos



LOOKING WEST



LOOKING EAST

Bridge #: 220015

County: CLEVELAND

Date: 10/03/2006

Structure Photos



WEST ELEVATION



EAST ELEVATION



POSTING SIGN



TYPICAL RAIL

Bridge #: 220015

County: CLEVELAND

Date: 10/03/2006

Structure Photos



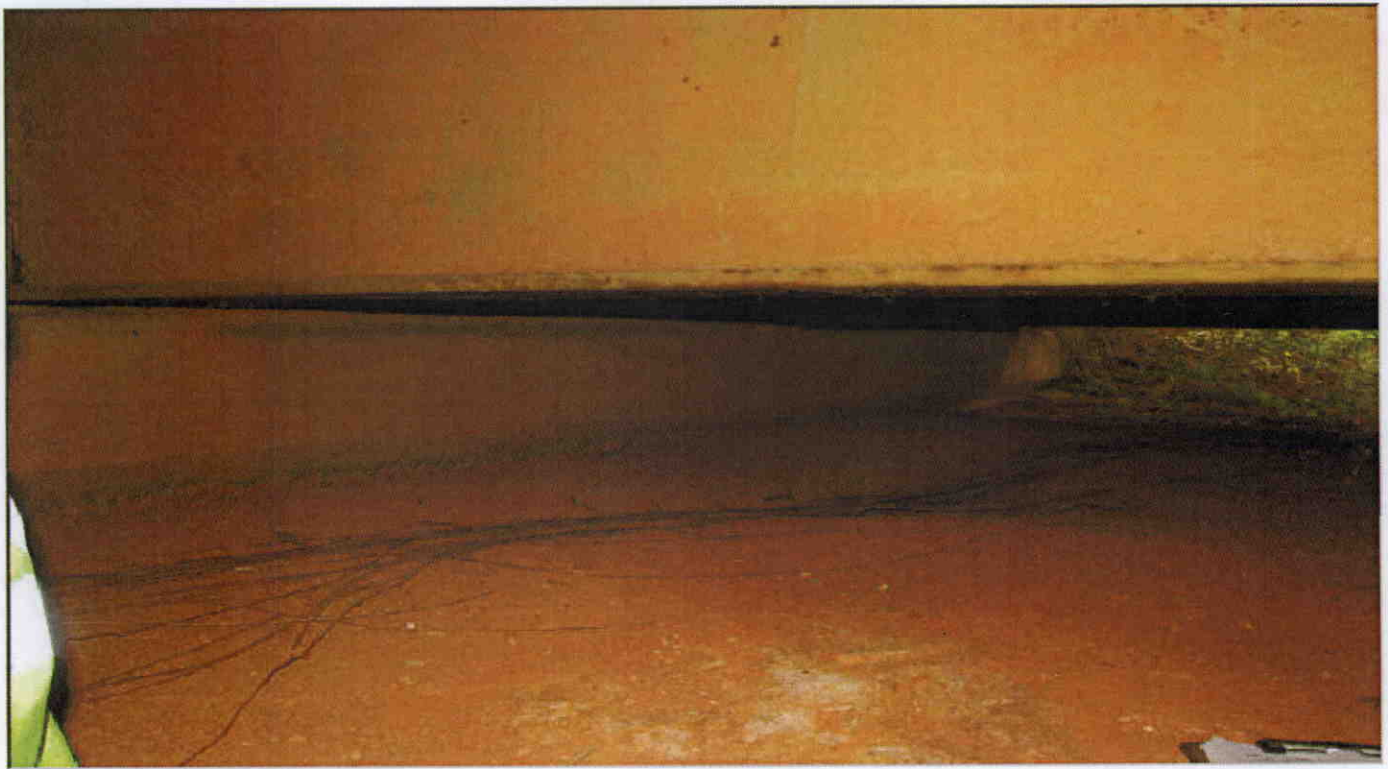
JOINT OVER INTERIOR BENT



TYPICAL INTERIOR BENT



TYPICAL END BENT



TYPICAL END BENT