

CUY-90-14.90

PID 77332/85531

APPENDIX ST-05

Bridge Inventory and Inspection Data (Reference Document)

State of Ohio
Department of Transportation
Jolene M. Molitoris, Director

Innerbelt Bridge
Construction Contract Group 1 (CCG1)

Revision Date: October 19, 2009

Unit of Measure: English Structure File Number 1809342 Sufficiency Rating: 90.3			Bridge Inventory Information Inventory Bridge Number: CUY 00090 1 ON STARKWEATHER AVE	490 L		Report Date 10/15/2009 BM-191 Page: 1 of 2 BR. Type STEEL / BEAM / CONTINUOUS Date of Last Inventory Update: 05/21/2009
District: 12	Coun	ity CUYAHOGA	(101) Location:	.27 MI. N OF JCT I-71		(102) Facility Carried: I-90
(2)FIPS Code: CLEVELAND		.,	(, , , , , , , , , , , , , , , , , , ,	Bridge: STATE (ODOT)		(104) Route Under Bridge: MUNICIPAL
(9) Direction of Traffic: 1-WAY TRAFFIC	(10)	Temporary: N	(11)Truck Netwo		(1	12)Parallel: L
(95) Insp: OHIO TRAN DEPT (96) Maint: C			` ,	r: (On): HIGHWAY	•	Under): HIGHWAY, WITH OR WIT
	Route Data	,		Type: STEEL / BEAM / CO	•	,
_	Hwy Sys: INTERSTA	ATE HIGHWAY	. ,	Type: NONE / NONE / NON		
Route No.: 00090 Dir:	Des: MAINLINE	Pref:	1	(65) Max Span: 67 Ft		(66) Overall Leng: 166 Ft
(4) Feature Intersected: STARKWEATHER	RAVE		-	(71) Foundation and Scour		3
(5) County: CUY Mileage: 1490	Special Desig: L		I` '	Type: STUB GRAVITY		Fnd: CIP REINF CONCRETE PILES(OTHER DIAMETER)
(6) Avg. Daily Traffic(ADT): 59,710	(7) ADT Year: 2007			Type: STUB GRAVITY		nd: CIP REINF CONCRETE PILES(OTHER DIAMETER)
(8) Truck Traf: 4,885 (14) NHS: YES - N	(15) Corridor: Y			Type: CAPPED COLUMN		nd: CIP REINF CONCRETE PILES(OTHER DIAMETER)
(16) Functional Class: INTERSTATE-URBAN		(19) Strahnt: Interstate		Type: NONE		Fnd: OTHER
Intersected	d Route Data			Type: NONE		Fnd: OTHER
(22) Route On/Under: UNDER	Hwy Sys: MUNICIPA	AL STREET		Other: NN		Other: NN
Route No.: SKWTR Dir:	Des: 1	Pref:		(74) Scour: BRIDGE NOT (
(23) Feature Intersected: I-90 WB (ONLY)			r ,	Probe: N Freq: 0		(75) Chan Prot: N/A
(24) County: CUY Mileage: 0000	Special Desig:		j, , ,	(152) Drainage Area: NNN	,	, 0, 0, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
(25) Avg. Daily Traffic(ADT): 100	(26) ADT Year: 1970)	(100) Bate of fact Bive mop.	-	der the Bridge	
	(29) Corridor: N		(156) Min. Horiz Under Clear:	NC: 0.0 Ft		Card: 52.0 Ft
(30) Functional Class: LOCAL ROAD-URBAN	` '	Strahnt: Not Applicable	I' '	16.8 Ft	`	Sard. 32.0 1 t
	On the Bridge		(101) I las max the Ghasi Gloai.	NC: 0.0 Ft	(Card: 16.8 Ft
	NC: 0.0 Ft	Card: 38.0 Ft	T' '	NC: 0.0 / 0.0 Ft		Card: 6.0 / 6.0 Ft
(155) Prac Max Vert On Brg:	9999.9 Ft		Load Rating Informa			(88-89) Appraisal
(67) Min Vrt Clr On Brg:	NC: 0.0 Ft	Card: 9999.9 Ft	(48) Design Load: HS/20-44 & ALTERNATE		(Including calcu	
· ·	NC: 4.7 / 8.7 Ft	Card: 0.0 / 0.0 Ft	(83) Operating: 45 Ton	MILITARY EDADING	(morading calcul	lated items)
	0.0 Ft		Inventory: 36 Ton			
	Information		Ohio Percent of Legal Load 150		(88) Waterway A	M vacunehA
(38) Bypass Length: 01 Miles			Year of Rating: 1973		(89) Approach A	
(39) Latitude: 41 Deg 28.7 Min	Longitude: 81 Deg 4	1.6 Min	(84) Analysis: WORKING STRESS (WS)		Calc Gen Appra	=
(40) Toll: ON FREE ROAD			(85) Rate Soft: BARS Analyzed by:		Calc Deck Geor	
(41) Date Built: 07/01/1968	(42) Major Rehabilita	ation:	Analysis on Bars: WRKG STRESS ANALYS	als.	Calc Underclear	•
(43) No. Lanes On: 2	No. Lanes Under: 3		Analysis on Bars. Witte STRESS ANALTS		Information	uiioc. 4
(44) Horiz Curve: 01 Deg. 28 Min.	(45) Skew: 1 Deg		(109) Approach Guardrail: STEEL BEAM	Дрисцоп	mormation	
(49) App. Rdw Width: 36 Ft	(50) Brg. Rdw Width	: 38.0 Ft	(110) Approach Pavement: BITUMINOUS		(111) Grade: FA	AIR
(51) Deck Width: 42.0 Ft	Deck Area: 6975 Sq.	. Ft	(110) Approach avenuent. Bit chintege		nformation	NII N
(52) Median Type: NONE / NON BARRIE	NO JOINT		(131) Culvert Type: NONE/NOT APPLICBLE		(127) Length: 0.	Ω Et
(53) Bridge Median: NO MEDIAN			(129) Depth of Fill: 0.0 Ft	-	(130) Headwalls	
(54) Sidewalks:	(left) 0 Ft	(right) 0 Ft	(129) Depth of 1 iii. 0.0 1 t	Gonoral I	nformation	S. NONE
(55) Type Curb or Sidewalks:			(121) Main Member ROLLED STEEL	Generali	illormation	(122) Moment Plate: WELDED
(Left) Matl: NONE	Type: NONE		(169) Expansion Joint: SLIDING METAL PLA	ATE ANGLE		(122) Moment Flate. WELDED
	Type: NONE		(124) Bearing Devices: ROCKERS/NONE	ATE ANGLE		
(56) Flared: Y	(57) Composite: non	n-composite	(124) Bearing Bevices: ROCKERS/NONE (126) Navigation: Control- X	Vert Clr: 0.0 Ft		Horiz Clear:: 0.0 Ft
(58) Railing: REINFORCED CONCRETE F	PARAPET		(193) Spec Insp: N	Freq: 0		Date:
(59) Deck Drainage: SCUPPERS & DWNS			(188) Fracture Critical Insp: N	Freq: 0		Date:
(60) Deck Type: REINF CONCRT (PREST	RSD, PRECAST		(138) Long Member: NOT APPLICABLE	. 10q. v		(135) Hinges: NOT APPLICABLE
(61) Deck Protection: External: NONE			(141) Structural Steel Memb: UNKNOWN			(139) Framing:
Internal: NONE			(,			Railing: UNKNOWN
(62) Wearing Surface: DENSE CONCRET	` ,		Pay Wt: 0 pounds	Prime Loc: UNKNOWN		Paint: PAINT SYSTEM OZEU
Thickness: 1.2 in (119) Date of Wearing	•	04	Bridge Dedicated Name:	200. 01111101111		
Slope Protection: CONCRETE (CAST-IN-F	PLACE)		- 5			

Unit of Measure: **English** Structure File Number **1809342** Sufficiency Rating: **90.3**

Bridge Inventory Information Inventory Bridge Number: CUY 00090 1490 L ON STARKWEATHER AVE

Report Date 10/15/2009 BM-191 Page: 2 of 2 BR. Type STEEL/BEAM/CONTINUOUS Date of Last Inventory Update: 05/21/2009

General Information (Continued) Original Plans Information (---) Hist Significance: NOT HISTORIC (69) NBIS: Y (142) Fabricator: MUNSTER STEEL (---) Hist Builder: NONE N/A Hist Build Year: 143) Contractor: HORVITZ CO. (69) Hist Type: NONE N/A (144) Ohio Original Construction Project No.: 018365 (161) Special Features (see below): ---) Microfilm Reel: CUY031 (105) Border Bridge State: Resp % (106) SFN: (151) Standard Drawing: SD-1-63 Proposed Improvements **Programming Info** Aperture Cards: Orig: Y Repair: Y Fabr: N (90) Type Work: -PID Number: **21572** Plan Information Available: 1PLAN INFORMATION AVAILABLE PID Status: PROGRAM (153) Repair Projects (90) Length: Ft PID Date: 11/16/2000 1. **/ 020** 2. 780828 / 044 3. / (90) Bridge Cost (\$1000s): 0 4. **/ 049** 5. / 049 6. / **059** (90) Roadway Cost (\$1000s): 0 7. **/ 039** 8. / 004 9. (90) Total Project Cost (\$1000s): 0 (90) Year: 10. (91) Future ADT (On Bridge): 0 (92) Year of Future ADT: 2027 **Inspection Summary** (I-69) Survey Items Utilities **Special Features** (I-8) Deck: 6 1 MEETS CURRENT STANDARDS Railings: 46) Electric: U (161) Lighting: (I-32) Superstructure: 7 Transitions: 1 MEETS CURRENT STANDARDS U Ν Gas: Fencina: (I-42) Substructure: 7 Guardrail: 1 MEETS CURRENT STANDARDS Sanitary Sewer: U Glare-Screen: Ν (I-50) Culvert: Rail Ends: 1 MEETS CURRENT STANDARDS Telephone: U Splash-Guard: Ν (I-54) Channel: Pavement Mark: 1 MEETS CURRENT STANDARDS TV Cable: U Catwalks: Ν 7 (I-60) Approaches: Restrict Sign: N NONE N/A Water: U Other-Feat: U (I-66) General Appraisial: 7 Warning Sign: N NONE N/A U Ν Other: (184) Signs-on: (I-66) Operational Status: A End Markers: N NONE N/A Signs-Under: Ν Inspection Date: 11/13/2008 Insp. Update Date: 02/17/2009 162) Fence-Ht: 0.0 Ft (94) Desig Insp Freq: 12 Months 163) Noise Barr: Ν SFNs Replacing this retired bridge: SFNs That where replaced by this bridge: This bridge was retired and copied to: The bridge was copied from: INV Field Bridge Marker: CUY-00090-1490 -L INT Field Bridge Marker: CUY-SKWTR-0000 -

Elem No.	CoRe Element Description	Total Quantity	Unit Meas.	Condition State Percents(*)					
				1	2	3	4	5	
22	CONCRETE DECK PROTECTED W/RIGID OVERLAY	1	EA	0	0	0	0	0	
215	REINFORCED CONC ABUTMENT	84	LF	0	0	0	0	0	
234	REINFORCED CONC CAP	84	LF	0	0	0	0	0	
304	OPEN EXPANSION JOINT	84	LF	0	0	0	0	0	
321	REINFORCED CONCRETE APPROACH SLAB	2	EA	0	0	0	0	0	
331	CONCRETE BRIDGE RAILING	332	LF	0	0	0	0	0	
		(*) Pe	rcentages S	hou	ld a	dd t	o 10	00%	

1 8 0 9 3 4 2

Bridge Number $\begin{array}{ccc} CUY & \underline{00090} & \underline{1490} \\ CO & ROUTE & UNIT \end{array}$

L CLEVELAND

Date Built 07/01/1968

District 12 Bridge Type STEEL/BEAM/CONTINUOUS Type Service 1 **11 STARKWEATHER AVE** <u>CUY</u> DECK Out/Out 42.0 THCK = 1.2 2 1-REINF CONCRT (PRESTRSD 1. Floor 2. Wearing Surface 4-DENSE CONCRETE (IOWA S W.S. Date = 10/31/2004 N-NONE 3. Curbs, Sidewalks, Walkways 4. Median 1 1-REINFORCED CONCRETE PA 10 5. Railing 6. Drainage 3-SCUPPERS & DWNSPTS 6 7. Expansion Joints 2-SLIDING METAL PLATE AN 11 8. Summary SUPERSTRUCTURE MAX.SPAN=67 9. Alignment 10. Beams/Girders/Slab 1-ROLLED STEEL TOT.LGTH=166 11. Diaphragms or Crossframes 12. Joists/Stringers 13. Floor Beams 14. Floor Beam Connections 15. Verticals 16. Diagonals 17. End Posts 18. Top Chord 19. Lower Chord 20. Lower Lateral Bracing 21. Top Lateral Bracing 22. Sway Bracing 2-ROCKERS 23. Portals N-NONE 24. Bearing Devices 25. Arch 26. Arch Columns or Hangers TYPE = 5-PAINT SYSTEM OZEU 8 28. Protective Coating System DATE = 08/01/199427. Spandrel Walls 29. Pins/Hangers/Hinges 30. Fatigue Prone Connections 31. Live Load Response 32. Summary SUBSTRUCTURE 2-CONCRETE PIERS=2 SPANS = 3 1 33. Abutments 2-CONCRETE 24 34. Abutment Seats 35. Piers TYPE = 2-CONCRETE 25 36. Pier Seats ABUTMENT:=CIP REI / CIP REI 37. Backwalls 38. Wingwalls N-BRIDGE NOT OVER WATERW 6 40. Scour 39. Fenders and Dolphins 41. Slope Protection 1-CONCRETE (CAST) 28 42. Summary DIVE DT=N/A **CULVERTS** 43. General 44. Alignment 45. Shape 46. Seams 47. Headwalls or Endwalls 48. Scour 50. Summary **CHANNEL** 51. Alignment 52. Protection 53. Waterway Adequacy 54. Summary **APPROACHES** 55. Pavement 2-BITUMINOUS 35 56. Approach Slabs 57. Guardrail 1-STEEL BEAM 36 58. Relief Joints BRDG.WIDTH=38.0 37 59. Embankment 60. Summary PCT.LEGAL=150 ROUTINE.RESP: 1-OHIO TRAN DEPT **GENERAL** MAINT.RESP: 1-OHIO TRAN DEPT 61. Navigation Lights 62. Warning Signs MVC ON=9999 UND=0000 63. Sign Supports 65. Vertical Clearance 66. General Appraisal & Operational Status 67. INSPECTED BY 68. REVIEWED BY **DOT 2852** DECK AREA 6,975

BR-86 REV 02-95

1 8 0 9 3 4 2

Deck

Approaches

Bridge Number CUY 00090 1490 UNIT

Date Built 07/01/1968

District 12 Bridge Type STEEL/BEAM/CONTINUOUS

Type Service <u>1</u> <u>1</u> <u>1</u>

STARKWEATHER AVE

Deck FL: TRANSVERSE CRACKS @ 15' SPACING. SOME AREAS WITH MAP

Deck CRACKS. AREAS OF EFFLORESCENCE. 5-10% MOTTLED. MINOR

Deck DELAMS. 5-10% DETERIORATED.

Deck WS: A FEW CRACKS. <1% DETERIORATED.

Deck RAILING: RUST STAINED VERTICAL CRACKS.

Deck DRAINAGE: PARTIALLY PLUGGED SCUPPERS.

EXJTS: 10 LF OF 1" WIDE START (NORTH) JOINT ARMOR IS MISSING

Deck LANE #1. A FEW GOUGES. AREAS OF WATER LEAKING.

Superstructure BEAMS: MINOR RUSTED SECTION LOSS NEAR ABUTMENTS.

Superstructure XFRAMES: MINOR ENDFRAME RUSTED SECTION LOSS.

Superstructure PCS: MINOR RUST. <1% DETERIORATED.

Substructure BACKWALLS: CRACKS. A FEW SPALLS AND DELAMINATIONS.

PAVEMENT: NEW AT FINISH. START; CRACKS. MINOR POTHOLES AND

Approaches ASPHALT PATCHES.

Unit of Measure: English Structure File Number 1807625 Sufficiency Rating: 89.3			Bridge Inventory Information Inventory Bridge Number: CUY 00090 1 ON STARKWEATHER AVE	490 R		Report Date 10/15/2009 BM-191 Page: 1 of 2 BR. Type STEEL / BEAM / CONTINUOUS Date of Last Inventory Update: 05/21/2009
District: 12	Coun	ity CUYAHOGA	(101) Location:	.27 MI. N OF JCT I-71		(102) Facility Carried: I-90 AND I-71
(2)FIPS Code: CLEVELAND			(103) Route On	Bridge: STATE (ODOT)		(104) Route Under Bridge: MUNICIPAL
(9) Direction of Traffic: 2-WAY TRAFFIC	(10) ٦	Temporary: N	(11)Truck Netwo	ork: Y	(1	2)Parallel: R
(95) Insp: OHIO TRAN DEPT (96) Maint: C	OHIO TRAN DEPT (9	7) Routine: OHIO TRA	(100) Type Serv	r: (On): HIGHWAY	(L	Jnder): HIGHWAY, WITH OR WIT
Inventory	Route Data		(63) Main Spans Number: 3	Type: STEEL / BEAM / CO	NTINUOUS	
(3) Route On/Under: ON	Hwy Sys: INTERSTA	ATE HIGHWAY	Approach Spans Number: 0	Type: NONE / NONE / NON	1E	
Route No.: 00090 Dir:	Des: MAINLINE	Pref:	Total Spans: 3	(65) Max Span: 67 Ft	(66) Overall Leng: 166 Ft
(4) Feature Intersected: STARKWEATHER	RAVE		(70) Substructure	(71) Foundation and Scour	Information	
` ,	Special Desig: R		Abut-Rear Matl: CONCRETE	Type: STUB GRAVITY	F	Fnd: CIP REINF CONCRETE PILES(OTHER DIAMETER)
	(7) ADT Year: 2004		Abut-Fwd Matl: CONCRETE	Type: STUB GRAVITY	F	Fnd: CIP REINF CONCRETE PILES(OTHER DIAMETER)
(8) Truck Traf: 4,885 (14) NHS: YES - N				Type: CAPPED COLUMN	F	Fnd: CIP REINF CONCRETE PILES(OTHER DIAMETER)
(16) Functional Class: INTERSTATE-URBAN		(19) Strahnt: Interstate	Pier-Other Matl: NONE	Type: NONE	F	Fnd: OTHER
	d Route Data			Type: NONE	F	Fnd: OTHER
	Hwy Sys: MUNICIPA			Other: NN	(Other: NN
Route No.: SKWTR Dir:	Des: 1	Pref:	r ,	(74) Scour: BRIDGE NOT (
(23) Feature Intersected: I-90 EB (ONLY)			i, , ,	Probe: N Freq: 0	,	75) Chan Prot: N/A
(24) County: CUY Mileage: 0000	Special Desig:		(189) Date of last Dive Insp:	(152) Drainage Area: NNNN		
(25) Avg. Daily Traffic(ADT): 100	(26) ADT Year: 1970)			nder the Bridge	
` '	(29) Corridor: N	O 	I' '	NC: 0.0 Ft	(Card: 52.0 Ft
(30) Functional Class: Local Road-URBAN		Strahnt: Not Applicable	(101) I Tao Max VII Ondor Glodi.	18.3 Ft		
	On the Bridge	Cond. OC F Ft	,	NC: 0.0 Ft		Card: 18.3 Ft
(-)	NC: 52.5 Ft	Card: 86.5 Ft	, ,	NC: 0.0 / 0.0 Ft	(Card: 6.0 / 6.0 Ft
(155) Prac Max Vert On Brg: (67) Min Vrt Clr On Brg:	9999.9 Ft NC: 0.0 Ft	Card: 9999.9 Ft	Load Rating Informa			(88-89) Appraisal
· · · · · · · · · · · · · · · · · ·	NC: 4.7 / 8.7 Ft	Card: 4.7 / 8.7 Ft	(48) Design Load: HS/20-44 & ALTERNATE	MILITARY LOADING	(Including calcul	ated Items)
	0.0 Ft	Caru. 4.7 / 6.7 Ft	(83) Operating: 45 Ton			
	Information		Inventory: 36 Ton		(00) 144	
(38) Bypass Length: 01 Miles	mormation		Ohio Percent of Legal Load 150		(88) Waterway A	
-	Longitude: 81 Deg 4	1.6 Min	Year of Rating: 1973		(89) Approach A	=
(40) Toll: ON FREE ROAD	Longitudo. C. 20g 1		(84) Analysis: WORKING STRESS (WS)		Calc Gen Appra	
(41) Date Built: 07/01/1968	(42) Major Rehabilita	ation:	(85) Rate Soft: BARS Analyzed by:	ic	Calc Deck Geor Calc Underclear	•
` '	No. Lanes Under: 3		Analysis on Bars: WRKG STRESS ANALYS		Information	ance. 4
` '	(45) Skew: 10 Deg		(109) Approach Guardrail: STEEL BEAM	Approach	iniormation	
	(50) Brg. Rdw Width:	: 139.0 Ft	(110) Approach Pavement: BITUMINOUS		(111) Grade: FA	UR.
(51) Deck Width: 144.0 Ft	Deck Area: 23907 Sc	q. Ft	(110) Approach Lavement. Bil Chillege		nformation	
(52) Median Type: RAISED MED / STEEL	BARR / OPEN JOIN	Ť	(131) Culvert Type: NONE/NOT APPLICBLE		(127) Length: 0.	0 Et
(53) Bridge Median: OPEN MEDIAN			(129) Depth of Fill: 0.0 Ft	-	(130) Headwalls	
(54) Sidewalks:	(left) 0 Ft	(right) 0 Ft	(120) Dopar or r III. 0.0 T t	General I	nformation	. NONE
(55) Type Curb or Sidewalks:			(121) Main Member ROLLED STEEL	General I	mormation	(122) Moment Plate: WELDED
(Left) Matl: NONE	Type: NONE		(169) Expansion Joint: SLIDING METAL PLA	ATE ANGLE		(122) Monent Flate. WLLDLD
	Type: NONE		(124) Bearing Devices: ROCKERS/NONE			
	(57) Composite: non	n-composite	(126) Navigation: Control- X	Vert Clr: 0.0 Ft		Horiz Clear:: 0.0 Ft
(58) Railing: REINFORCED CONCRETE P			(193) Spec Insp: N	Freq: 0		Date:
(59) Deck Drainage: SCUPPERS & DWNS			(188) Fracture Critical Insp: N	Freq: 0		Date:
(60) Deck Type: REINF CONCRT (PREST	RSD, PRECAST		(138) Long Member: NOT APPLICABLE	·		(135) Hinges: NOT APPLICABLE
(61) Deck Protection: External: NONE			(141) Structural Steel Memb: UNKNOWN			(139) Framing:
Internal: NONE	- (IOMA OVOTER) =	NEDI AV				Railing: UNKNOWN
(62) Wearing Surface: DENSE CONCRET	,		Pay Wt: 0 pounds	Prime Loc: UNKNOWN		Paint: PAINT SYSTEM OZEU
Thickness: 1.2 in (119) Date of Wearing	-	J 4	Bridge Dedicated Name:			
Slope Protection: CONCRETE (CAST-IN-F	LAGE)					

Unit of Measure: **English** Structure File Number **1807625** Sufficiency Rating: **89.3**

Bridge Inventory Information Inventory Bridge Number: CUY 00090 1490 R ON STARKWEATHER AVE

Report Date 10/15/2009 BM-191 Page: 2 of 2 BR. Type STEEL/BEAM/CONTINUOUS Date of Last Inventory Update: 05/21/2009

General Information (Continued) Original Plans Information (---) Hist Significance: NOT HISTORIC (69) NBIS: Y (142) Fabricator: MUNSTER STEEL (---) Hist Builder: NONE N/A Hist Build Year: 143) Contractor: HORVITZ CO. (69) Hist Type: NONE N/A (144) Ohio Original Construction Project No.: 018365 (161) Special Features (see below): ---) Microfilm Reel: CUY031 (105) Border Bridge State: Resp % (106) SFN: (151) Standard Drawing: SD-1-63 Proposed Improvements **Programming Info** Aperture Cards: Orig: Y Repair: Y Fabr: N (90) Type Work: -PID Number: **21572** Plan Information Available: 1PLAN INFORMATION AVAILABLE PID Status: PROGRAM (153) Repair Projects (90) Length: Ft PID Date: 11/16/2000 1. **/ 020** 2. 780828 / 044 3. / (90) Bridge Cost (\$1000s): 0 4. **/ 049** 5. / **059** 6. / 039 (90) Roadway Cost (\$1000s): 0 7. **/ 004** 8. 9. (90) Total Project Cost (\$1000s): 0 (90) Year: 10. (91) Future ADT (On Bridge): 0 (92) Year of Future ADT: 2027 **Inspection Summary** (I-69) Survey Items Utilities **Special Features** (I-8) Deck: 6 1 MEETS CURRENT STANDARDS Railings: (46) Electric: U (161) Lighting: (I-32) Superstructure: 7 Transitions: **0 DOES NOT MEET CURRENT STANDARDS** U Ν Gas: Fencina: (I-42) Substructure: 7 Guardrail: 1 MEETS CURRENT STANDARDS Sanitary Sewer: U Glare-Screen: Ν (I-50) Culvert: Rail Ends: **0 DOES NOT MEET CURRENT STANDARDS** Telephone: U Splash-Guard: Ν (I-54) Channel: Pavement Mark: 1 MEETS CURRENT STANDARDS TV Cable: U Catwalks: Ν (I-60) Approaches: 6 Restrict Sign: N NONE N/A Water: U Other-Feat: U (I-66) General Appraisial: 7 Warning Sign: N NONE N/A U Ν Other: (184) Signs-on: (I-66) Operational Status: A End Markers: N NONE N/A Signs-Under: Ν Inspection Date: 11/13/2008 Insp. Update Date: 01/26/2009 162) Fence-Ht: 0.0 Ft (94) Desig Insp Freq: 12 Months 163) Noise Barr: Ν SFNs Replacing this retired bridge: SFNs That where replaced by this bridge: This bridge was retired and copied to: The bridge was copied from: INV Field Bridge Marker: CUY-00090-1490 -R INT Field Bridge Marker: CUY-SKWTR-0000 -

Elem No.	CoRe Element Description	Total Quantity	Unit Meas.	Condition State Percents(*)						
				1	2	3	4	5		
22	CONCRETE DECK PROTECTED W/RIGID OVERLAY	1	EA	0	0	0	0	0		
215	REINFORCED CONC ABUTMENT	292	LF	0	0	0	0	0		
234	REINFORCED CONC CAP	292	LF	0	0	0	0	0		
304	OPEN EXPANSION JOINT	292	LF	0	0	0	0	0		
321	REINFORCED CONCRETE APPROACH SLAB	2	EA	0	0	0	0	0		
331	CONCRETE BRIDGE RAILING	664	LF	0	0	0	0	0		
	•	(*) Pe	rcentages S	hou	ld a	dd 1	o 10	00%		

Type Service

1 8 0 7 6 2 5

District 12 Bridge Type STEEL/BEAM/CONTINUOUS

Bridge Number $\begin{array}{ccc} CUY & \underline{00090} & \underline{1490} \\ CO & ROUTE & UNIT \end{array}$

R CLEVELAND

11 STARKWEATHER AVE

1

Date Built 07/01/1968

<u>CUY</u>

DECK Out/Out 144.0 THCK = 1.2 2 1-REINF CONCRT (PRESTRSD 1. Floor 2. Wearing Surface 4-DENSE CONCRETE (IOWA S W.S. Date = 10/31/2004 N-NONE 3. Curbs, Sidewalks, Walkways 4. Median 1 1-REINFORCED CONCRETE PA 10 5. Railing 6. Drainage 3-SCUPPERS & DWNSPTS 6 7. Expansion Joints 2-SLIDING METAL PLATE AN 11 8. Summary SUPERSTRUCTURE MAX.SPAN=67 9. Alignment 10. Beams/Girders/Slab 1-ROLLED STEEL TOT.LGTH=166 11. Diaphragms or Crossframes 12. Joists/Stringers 13. Floor Beams 14. Floor Beam Connections 15. Verticals 16. Diagonals 17. End Posts 18. Top Chord 19. Lower Chord 20. Lower Lateral Bracing 21. Top Lateral Bracing 22. Sway Bracing 2-ROCKERS 23. Portals 24. Bearing Devices N-NONE 25. Arch 26. Arch Columns or Hangers TYPE = 5-PAINT SYSTEM OZEU 8 28. Protective Coating System DATE = 08/01/199427. Spandrel Walls 29. Pins/Hangers/Hinges 30. Fatigue Prone Connections 31. Live Load Response 32. Summary SUBSTRUCTURE 2-CONCRETE PIERS=2 SPANS = 3 1 33. Abutments 2-CONCRETE 24 34. Abutment Seats 35. Piers TYPE = 2-CONCRETE 25 36. Pier Seats ABUTMENT:=CIP REI / CIP REI 37. Backwalls 38. Wingwalls N-BRIDGE NOT OVER WATERW 6 40. Scour 39. Fenders and Dolphins 41. Slope Protection 1-CONCRETE (CAST) 28 42. Summary DIVE DT=N/A **CULVERTS** 43. General 44. Alignment 45. Shape 46. Seams 47. Headwalls or Endwalls 48. Scour 50. Summary **CHANNEL** 51. Alignment 52. Protection 53. Waterway Adequacy 54. Summary **APPROACHES** 55. Pavement 2-BITUMINOUS 35 56. Approach Slabs 57. Guardrail 1-STEEL BEAM 36 58. Relief Joints 6 BRDG.WIDTH=139.0 37 59. Embankment 60. Summary PCT.LEGAL=150 ROUTINE.RESP: 1-OHIO TRAN DEPT **GENERAL** MAINT.RESP: 1-OHIO TRAN DEPT 61. Navigation Lights 62. Warning Signs UND=0000 MVC ON=9999 63. Sign Supports 65. Vertical Clearance 66. General Appraisal & Operational Status 67. INSPECTED BY 68. REVIEWED BY **DOT 2852 DECK AREA 23,907**

1 8 0 7 6 2 5

Bridge Number CO ROUTE UNIT Date Built 07/01/1968

District 12 Bridge Type STEEL/BEAM/CONTINUOUS

Type Service 1 11 STARKWEATHER AVE

FL: TRANSVERSE CRACKS @ 15' SPACING. STALACTITES. DELAMS. Deck 15% MOTTLED. 30 SF OF SPALLS MOSTLY ALONG MEDIAN. 5-10% Deck DETERIORATED. SPALL FORMING OVER TRAFFIC; SEE ATTACHED Deck

Deck WO# 240 2009 14.

WS: CRACKS. <1% DETERIORATED. Deck MEDIAN: CRACKS. SPALLS. DELAMS. Deck

RAILING: CRACKS. Deck

DRAINAGE: PARTIALLY PLUGGED SCUPPERS. 2" LOOSE DEBRIS IN SB Deck

Deck GUTTER

Deck EXJT: AREAS OF RISER BAR MISSING. WATER LEAKS AT SEVERAL

AREAS. Deck

BEAMS: MINOR RUSTED SECTION LOSS. Superstructure

XFRAMES: MINOR ENDFRAME RUSTED SECTION LOSS. Superstructure

BEARINGS: LOOSE ABUTMENT ROCKERS: START (S) ROCKERS 11,15, Superstructure

AND 16. FINISH ROCKERS 3,4 AND 10. MOST START ROCKERS Superstructure Superstructure

TIPPED IN. PIER #1 ROCKERS 1 THRU 7 TIPPED IN @ 45

Superstructure DEGREES F.

PCS: MINOR RUST. <1% DETERIORATED. Superstructure

Substructure ABUTMENTS: A FEW SPALLS. CRACKS. DELAMINATIONS.

PIERS: CAP DELAMINATIONS. Substructure

BACKWALLS: SPALLS, CRACKS, AND DELAMINATIONS, Substructure

Approaches PAVEMENT: CRACKS. ASPHALT PATCHES. ASPHALT BREAK-UP NEAR

Approaches EXJT'S.

Approaches

Approaches

APPROACH SLAB: SLIGHT BOUNCE ONTO BRIDGE FINISH ABUTMENT IN Approaches

71 SOUTHBOUND LANES, THIS CAUSES A LOAD

RUMBLE NOISE BELOW. Approaches

EMBANKMENT: EROSION AT FINISH-RIGHT, WINGWALL IS UNDERMINED Approaches

HERE; L=4', T=22", V=3.5"; SEE ATTACHED PHOTO 1

DATED 11/13/08. Approaches

Unit of Measure: English Structure File Number 1807684 Sufficiency Rating: 82.0			Bridge Inventory Information Inventory Bridge Number:CUY 00090 ON KENILWORTH AVE			Report Date 10/15/2009 BM-191 Page: 1 of 2 BR. Type STEEL / BEAM / CONTINUOUS Date of Last Inventory Update: 05/21/2009
District: 12 (2)FIPS Code: CLEVELAND (9) Direction of Traffic: 2-WAY TRAFFIC (95) Insp: OHIO TRAN DEPT (96) Maint: C	(10)	ty CUYAHOGA Temporary: N 7) Routine: OHIO TRA	(103) Route On (11)Truck Netwo	.39 MI. N. OF JCT. I-71 Bridge: STATE (ODOT) ork: Y /: (On): HIGHWAY	,	(102) Facility Carried: I-90 (104) Route Under Bridge: MUNICIPAL I2)Parallel: N Under): HIGHWAY , WITH OR WIT
	Route Data	7) Roddine. Office TRA		Type: STEEL / BEAM / CO	-	Sinder). The first of the
(3) Route On/Under: ON Route No.: 00090 Dir:	Hwy Sys: INTERSTA Des: MAINLINE	ATE HIGHWAY Pref:	Approach Spans Number: 0 Total Spans: 3	Type: NONE / NONE / NON (65) Max Span: 69 Ft	JE ((66) Overall Leng: 170 Ft
 (4) Feature Intersected: KENILWORTH AV (5) County: CUY Mileage: 1506 (6) Avg. Daily Traffic(ADT): 119,420 (8) Truck Traf: 9,770 (14) NHS: YES - N (16) Functional Class: INTERSTATE-URBAN 	Special Desig: (7) ADT Year: 2004 (15) Corridor: Y	(19) Strahnt: Interstate	Abut-Rear Matl: CONCRETE Abut-Fwd Matl: CONCRETE Pier-Pred Matl: CONCRETE	(71) Foundation and Scour Type: STUB GRAVITY Type: STUB GRAVITY Type: CAPPED COLUMN Type: NONE	 	Fnd: CIP REINF CONCRETE PILES(OTHER DIAMETER) Fnd: CIP REINF CONCRETE PILES(OTHER DIAMETER) Fnd: CIP REINF CONCRETE PILES(OTHER DIAMETER) Fnd: OTHER
	d Route Data		Pier-Other Matl: NONE	Type: NONE	i	-nd: OTHER
(22) Route On/Under: UNDER	Hwy Sys: MUNICIPA		No of Piers Predominate: 02	Other: NN	(Other: NN
Route No.: KNLWH Dir: (23) Feature Intersected: IR 90 (24) County: CUY Mileage: 0000	Des: 1 Special Desig:	Pref:	(189) Dive: N Freq: 0	(74) Scour: BRIDGE NOT C Probe: N Freq: 0 (152) Drainage Area: NNNN	((75) Chan Prot: N/A
(25) Avg. Daily Traffic(ADT): 100	(26) ADT Year: 1970)		Clearance Ur	nder the Bridge	
` '	(29) Corridor: N			NC: 0.0 Ft	(Card: 52.0 Ft
(30) Functional Class: Local Road-URBAN		Strahnt: Not Applicable	(101) I Tao Max VII Ondor Glodi.	14.5 Ft		
	On the Bridge	O 04 4 51	,	NC: 0.0 Ft		Card: 14.5 Ft
(154) Min Hriz on Bridge:	NC: 64.4 Ft	Card: 64.4 Ft	· ,	NC: 0.0 / 0.0 Ft	(Card: 6.0 / 6.0 Ft
(155) Prac Max Vert On Brg:	9999.9 Ft	Card: 0000 0 Et	Load Rating Informa			(88-89) Appraisal
(67) Min Vrt Clr On Brg: (80) Min Latl Clr:	NC: 0.0 Ft NC: 4.7 / 8.7 Ft	Card: 9999.9 Ft Card: 4.7 / 8.7 Ft	(48) Design Load: HS/20-44 & ALTERNATE	MILITARY LOADING	(Including calcu	lated Items)
(81) Vrt Clr Lft:	0.0 Ft	Calu. 4.7 / 6.7 Ft	(83) Operating: 45 Ton			
	Information		Inventory: 36 Ton		(00) \\/- \	A de suce su N
(38) Bypass Length: 02 Miles	mormation		Ohio Percent of Legal Load 150		(88) Waterway (89) Approach A	
(39) Latitude: 41 Deg 28.8 Min	Longitude: 81 Deg 4	1.6 Min	Year of Rating: 1973 (84) Analysis: WORKING STRESS (WS)		Calc Gen Appra	=
(40) Toll: ON FREE ROAD			(85) Rate Soft: BARS Analyzed by:		Calc Gen Appra	
(41) Date Built: 07/01/1967	(42) Major Rehabilita	ation:	Analysis on Bars: WRKG STRESS ANALYS		Calc Underclea	•
(43) No. Lanes On: 8	No. Lanes Under: 4		Analysis on Bais. With others Alvaere		Information	ance. 4
(44) Horiz Curve: 01 Deg. 28 Min.	(45) Skew: 12 Deg		(109) Approach Guardrail: STEEL BEAM	ripprodon	o.	
(49) App. Rdw Width: 135 Ft	(50) Brg. Rdw Width	: 135.0 Ft	(110) Approach Pavement: BITUMINOUS		(111) Grade: F	AIR
(51) Deck Width: 139.3 Ft	Deck Area: 23692 Se	•			nformation	
(52) Median Type: RAISED MED / STEEL	BARR / OPEN JOIN	Т	(131) Culvert Type: NONE/NOT APPLICBLE		(127) Length: 0.	0 Ft
(53) Bridge Median: OPEN MEDIAN	(1 (1) 0 5	(: 1 ·) • -	(129) Depth of Fill: 0.0 Ft		(130) Headwalls	s: NONE
(54) Sidewalks:	(left) 0 Ft	(right) 0 Ft		General I	nformation	
(55) Type Curb or Sidewalks: (Left) Matl: NONE	Type: NONE		(121) Main Member ROLLED STEEL			(122) Moment Plate: WELDED
(Right) Matl: NONE	Type: NONE		(169) Expansion Joint: SLIDING METAL PLA	ATE ANGLE		
(56) Flared: Y	(57) Composite: non	-composite	(124) Bearing Devices: ROCKERS/NONE			
(58) Railing: REINFORCED CONCRETE F			(126) Navigation: Control- X	Vert Clr: 0.0 Ft		Horiz Clear:: 0.0 Ft
(59) Deck Drainage: SCUPPERS & DWNS			(193) Spec Insp: N	Freq: 0		Date:
(60) Deck Type: REINF CONCRT (PREST			(188) Fracture Critical Insp: N	Freq: 0		Date:
(61) Deck Protection: External: NONE	,		(138) Long Member: NOT APPLICABLE (141) Structural Steel Memb: UNKNOWN			(135) Hinges: NOT APPLICABLE
Internal: NONE			(141) Structural Steel Memb: UNKNOWN			(139) Framing: Railing: UNKNOWN
(62) Wearing Surface: DENSE CONCRET	E (IOWA SYSTEM) C	OVERLAY	Pay Wt: 0 pounds	Prime Loc: UNKNOWN		Paint: PAINT SYSTEM OZEU
	ng Surface: 10/31/20 0	04	Bridge Dedicated Name:	I IIIIIG LOG. CIARIACIVIA		I AIIII. I AIIII SISIEW OZEO
Slope Protection: CONCRETE (CAST-IN-F	PLACE)					

Unit of Measure: **English**Structure File Number **1807684**Sufficiency Rating: **82.0**

Bridge Inventory Information Inventory Bridge Number: CUY 00090 1506

Report Date 10/15/2009 BM-191 Page: 2 of 2
BR. Type STEEL/BEAM/CONTINUOUS
Date of Last Inventory Undate: 05/21/2009

CUY-00090-1506 -

CUY-KNLWH-0000 -

ON KENILWORTH AVE Date of Last Inventory Update: 05/21/2009 Sufficiency Rating: 82.0 **General Information (Continued) Original Plans Information** (---) Hist Significance: NOT HISTORIC (69) NBIS: Y (142) Fabricator: MUNSTER STEEL (---) Hist Builder: NONE N/A Hist Build Year: (143) Contractor: HORVITZ CO. (69) Hist Type: NONE N/A (144) Ohio Original Construction Project No.: 018365 (161) Special Features (see below): (---) Microfilm Reel: CUY031 (105) Border Bridge State: Resp % (106) SFN: (151) Standard Drawing: **Proposed Improvements Programming Info** Aperture Cards: Orig: Y Repair: Y Fabr: N PID Number: **22737** (90) Type Work: -Plan Information Available: 1PLAN INFORMATION AVAILABLE PID Status: IA-OTHER (153) Repair Projects (90) Length: Ft PID Date: **06/13/2002** 1. / 020 2. 780828 / 044 3. 920725 / 041 (90) Bridge Cost (\$1000s): 0 . 920955 / 041 5. *I* 6. / 049 (90) Roadway Cost (\$1000s): 0 7. **/ 039** 8. / 040 9. / 004 (90) Total Project Cost (\$1000s): 0 (90) Year: 10. **/ 049** (91) Future ADT (On Bridge): 0 (92) Year of Future ADT: 2027 Inspection Summary (I-69) Survey Items Utilities Special Features

iiiai y		(1 00) 001 10) 1101110		Othitics	Орс	olar i cataros	
6	Railings:	1 MEETS CURRENT STANDARDS	(46) Electric:	U	(161) Lighting:	Υ	
7	Transitions:	0 DOES NOT MEET CURRENT STANDARDS	Gas:	U	Fencing:	N	
6	Guardrail:	1 MEETS CURRENT STANDARDS	Sanitary Sewer:	U	Glare-Screen:	N	
	Rail Ends:	0 DOES NOT MEET CURRENT STANDARDS	Telephone:	U	Splash-Guard:	N	
	Pavement Mark:	1 MEETS CURRENT STANDARDS	TV Cable:	U	Catwalks:	N	
6	Restrict Sign:	N NONE N/A	Water:	U	Other-Feat:	U	
6	Warning Sign:	N NONE N/A	Other:	U	(184) Signs-on:	N	
Α	End Markers:	N NONE N/A			Signs-Under:	N	
05/18/2009	Insp. Update Date:	10/12/2009			(162) Fence-Ht:	0.0 Ft	
12 Months					(163) Noise Barr:	N	
ed bridge:		_					
Ü		•					
,	je:	-					
nd copied to:							
	6 7 6 6 6 A 05/18/2009 12 Months ed bridge: d by this bridge	6 Railings: 7 Transitions: 6 Guardrail: Rail Ends: Pavement Mark: 6 Restrict Sign: Warning Sign: A End Markers: Insp. Update Date: ed bridge: d by this bridge:	6 Railings: 1 MEETS CURRENT STANDARDS 7 Transitions: 0 DOES NOT MEET CURRENT STANDARDS 6 Guardrail: 1 MEETS CURRENT STANDARDS Rail Ends: 0 DOES NOT MEET CURRENT STANDARDS Pavement Mark: 1 MEETS CURRENT STANDARDS Pavement Mark: 1 MEETS CURRENT STANDARDS Restrict Sign: N NONE N/A Warning Sign: N NONE N/A A End Markers: N NONE N/A Insp. Update Date: 10/12/2009 12 Months ed bridge: - d by this bridge: -	6 Railings: 1 MEETS CURRENT STANDARDS 7 Transitions: 0 DOES NOT MEET CURRENT STANDARDS 6 Guardrail: 1 MEETS CURRENT STANDARDS Rail Ends: 0 DOES NOT MEET CURRENT STANDARDS Pavement Mark: 1 MEETS CURRENT STANDARDS Pavement Mark: 1 MEETS CURRENT STANDARDS Pavement Mark: 1 MEETS CURRENT STANDARDS Restrict Sign: N NONE N/A Warning Sign: N NONE N/A D5/18/2009 12 Months Pavement Mark: N NONE N/A Insp. Update Date: 10/12/2009 12 Months 1 MEETS CURRENT STANDARDS Sanitary Sewer: Telephone: TV Cable: Water: Other: Other:	6 Railings: 1 MEETS CURRENT STANDARDS 7 Transitions: 0 DOES NOT MEET CURRENT STANDARDS 6 Guardrail: 1 MEETS CURRENT STANDARDS Rail Ends: 0 DOES NOT MEET CURRENT STANDARDS Pavement Mark: 1 MEETS CURRENT	6 Railings: 1 MEETS CURRENT STANDARDS 7 Transitions: 0 DOES NOT MEET CURRENT STANDARDS 6 Guardrail: 1 MEETS CURRENT STANDARDS Rail Ends: 0 DOES NOT MEET CURRENT STANDARDS Pavement Mark: 1 MEETS CURRENT STANDARDS 6 Restrict Sign: N NONE N/A 6 Restrict Sign: N NONE N/A 6 Warning Sign: N NONE N/A A End Markers: N NONE N/A 10/12/2009 12 Months 1 MEETS CURRENT STANDARDS Sanitary Sewer: U Sanitary Sewer: U Telephone: U Water: U Other: U (184) Signs-on: Signs-Under: (162) Fence-Ht: (163) Noise Barr:	6 Railings: 1 MEETS CURRENT STANDARDS 7 Transitions: 0 DOES NOT MEET CURRENT STANDARDS 6 Guardrail: 1 MEETS CURRENT STANDARDS Rail Ends: 0 DOES NOT MEET CURRENT STANDARDS Pavement Mark: 1 MEETS CURRENT STANDARDS 6 Restrict Sign: N NONE N/A NONE N/A End Markers: N NONE N/A D5/18/2009 12 Months 1 MEETS CURRENT STANDARDS Sanitary Sewer: U Splash-Guard: N Splash-Guard: N Catwalks: N Water: U Other: U Other: U (184) Signs-on: N Signs-Under: N Other: N (162) Fence-Ht: 0.0 Ft (163) Noise Barr: N

INV Field Bridge Marker:

INT Field Bridge Marker:

PONTIS CoRe elements and Condition States

The bridge was copied from:

	In p. El. (p. 17)	I =	111 14 14				04	,		
Elem No.	CoRe Element Description	Total Quantity	Unit Meas.	Condition State Percents(*)						
					Per	cen	_ ` '			
				1	2	3	4	5		
22	CONCRETE DECK PROTECTED W/RIGID OVERLAY	1	EA	0	0	0	0	0		
215	REINFORCED CONC ABUTMENT	285	LF	0	0	0	0	0		
234	REINFORCED CONC CAP	285	LF	0	0	0	0	0		
304	OPEN EXPANSION JOINT	285	LF	0	0	0	0	0		
321	REINFORCED CONCRETE APPROACH SLAB	2	EA	0	0	0	0	0		
331	CONCRETE BRIDGE RAILING	680	LF	0	0	0	0	0		
		(*) Pe	rcentages S	hou	ld a	dd 1	o 10	00%		

1 8 0 7 6 8 4

Bridge Number $\begin{array}{cc} \textbf{CUY} \\ \textbf{CO} \end{array}$ $\begin{array}{ccc} \textbf{00090} \\ \textbf{ROUTE} \end{array}$ $\begin{array}{ccc} \textbf{1506} \\ \textbf{UNIT} \end{array}$

CLEVELAND

Date Built 07/01/1967

District 12 Bridge Type STEEL/BEAM/CONTINUOUS Type Service **11 KENILWORTH AVE** CUY DECK Out/Out 139.3 THCK = 1.2 2 1-REINF CONCRT (PRESTRSD 1. Floor 2. Wearing Surface 4-DENSE CONCRETE (IOWA S W.S. Date = 10/31/2004 N-NONE 3. Curbs, Sidewalks, Walkways 4. Median 1 1-REINFORCED CONCRETE PA 10 5. Railing 6. Drainage 3-SCUPPERS & DWNSPTS 6 7. Expansion Joints 2-SLIDING METAL PLATE AN 11 8. Summary SUPERSTRUCTURE MAX.SPAN=69 9. Alignment 10. Beams/Girders/Slab 1-ROLLED STEEL TOT.LGTH=170 11. Diaphragms or Crossframes 12. Joists/Stringers 13. Floor Beams 14. Floor Beam Connections 15. Verticals 16. Diagonals 17. End Posts 18. Top Chord 19. Lower Chord 20. Lower Lateral Bracing 21. Top Lateral Bracing 22. Sway Bracing 2-ROCKERS 23. Portals 24. Bearing Devices N-NONE 25. Arch 26. Arch Columns or Hangers TYPE = 5-PAINT SYSTEM OZEU 28. Protective Coating System DATE = 01/01/199427. Spandrel Walls 29. Pins/Hangers/Hinges 30. Fatigue Prone Connections 31. Live Load Response 32. Summary SUBSTRUCTURE 2-CONCRETE PIERS=2 SPANS = 3 1 33. Abutments 2-CONCRETE 24 34. Abutment Seats 35. Piers TYPE = 2-CONCRETE 25 36. Pier Seats ABUTMENT:=CIP REI / CIP REI 2 37. Backwalls 38. Wingwalls N-BRIDGE NOT OVER WATERW 6 40. Scour 39. Fenders and Dolphins 6 41. Slope Protection 1-CONCRETE (CAST) 28 42. Summary DIVE DT=N/A **CULVERTS** 43. General 44. Alignment 45. Shape 46. Seams 47. Headwalls or Endwalls 48. Scour 50. Summary **CHANNEL** 51. Alignment 52. Protection 53. Waterway Adequacy 54. Summary **APPROACHES** 55. Pavement 2-BITUMINOUS 35 56. Approach Slabs 57. Guardrail 1-STEEL BEAM 36 58. Relief Joints 6 BRDG.WIDTH=135.0 37 59. Embankment 60. Summary PCT.LEGAL=150 ROUTINE.RESP: 1-OHIO TRAN DEPT **GENERAL** MAINT.RESP: 1-OHIO TRAN DEPT 61. Navigation Lights 62. Warning Signs MVC ON=9999 UND=0000 63. Sign Supports 65. Vertical Clearance 66. General Appraisal & Operational Status 67. INSPECTED BY 68. REVIEWED BY **DOT 2852 DECK AREA 23,692**

1 8 0 7 6 8 4

Deck

Bridge Number CO ROUTE UNIT

Date Built 07/01/1967

District 12 Bridge Type STEEL/BEAM/CONTINUOUS Type Service $\underline{1}$ $\underline{1}$ $\underline{1}$

KENILWORTH AVE

FL: LEACHING CRACKS. LARGE MOTTLED AREAS WITH STALACTITES Deck UNDER WESTBOUND LANES. RUST STAINS, 20 SF OF SPALLS. Deck SEE ATTACHED PHOTO 2 DATED 9/18/08, 35-40% DET, SPALLS Deck Deck FORMING OVER TRAFFIC. SEE ATTACHED WO # 240 2009 13.

WS: A FEW CRACKS. <1% DETERIORATED. Deck

MEDIAN: SPALLS. CRACKS. DELAMS. HEAVY DETERIORATION TO SOUTH Deck

END OF WESTBOUND MEDIAN. SEE ATTACHED PHOTO 1 DATED

Deck 9/18/08.

RAILINGS: LEACHED CRACKS, SPALL TO RIGHT OUTSIDE RAIL. Deck Deck DRAINAGE: RUST THRU HOLE IN DOWNSPOUT NEAR FINISH IN BAY 1. BEAMS: RUSTED SECTION LOSS TO FASCIA AND MEDIAN BAY BEAMS. Superstructure

XFRAMES: RUSTED SECTION LOSS TO ENDFRAMES. Superstructure

BEARINGS: FINISH ROCKER #7 IS LOOSE AND FINISH ROCKER 5 IS Superstructure

TIPPED OUT AT 60 DEGREES E. Superstructure

Superstructure PCS: 1% RUST. MINOR PEELING. 1-5% DETERIORATED. Substructure ABUTMENTS: 1/16" WIDE THRU CRACK AT BAY #1 IN START

Substructure ABUTMENT WHICH EXTENDS THRU BACKWALL.

PIERS: MINOR CAP DELAMINATIONS. Substructure

Substructure BACKWALLS: CRACKS. DELAMINATIONS. SHALLOW SPALLS.

PAVEMENT: CRACKS, SHALLOW SPALLS & MINOR BREAK-UP OF EB Approaches CONCRETE APPROACH SLABS, CRACKS AND A FEW POTHOLES Approaches

Approaches IN ASPHALT PAVEMENT OF WB APPROACHES.

Unit of Measure: English Structure File Number 1807919 Sufficiency Rating: 92.9	Bridge Inventory Information Inventory Bridge Number:CUY 00077 1597 L ON EAST 14TH ST					Report Date 10/15/2009 BM-191 Page: 1 of 2 BR. Type STEEL / BEAM / CONTINUOUS Date of Last Inventory Update: 12/22/2008
District: 12	Coun	ity CUYAHOGA	(101) Location:	.11 MI. E. OF JCT. I-77		(102) Facility Carried: I-90
(2)FIPS Code: CLEVELAND			(103) Route On	Bridge: STATE (ODOT)		(104) Route Under Bridge: MUNICIPAL
(9) Direction of Traffic: 1-WAY TRAFFIC	(10)	Temporary: N	(11)Truck Netwo		(1	12)Parallel: N
(95) Insp: OHIO TRAN DEPT (96) Maint: C			(100) Type Serv	r: (On): HIGHWAY	(l	Under): HIGHWAY, WITH OR WIT
	Route Data		(63) Main Spans Number: 4	Type: STEEL / BEAM / CO	NTINUOUS	·
(3) Route On/Under: ON	Hwy Sys: INTERSTA	ATE HIGHWAY		Type: NONE / NONE / NON		
Route No.: 00077 Dir:	Des: MAINLINE	Pref:	Total Spans: 4	(65) Max Span: 100 Ft	((66) Overall Leng: 287 Ft
(4) Feature Intersected: EAST 14TH ST			(70) Substructure	(71) Foundation and Scour	Information	· · · · · · · · · · · · · · · · · · ·
(5) County: CUY Mileage: 1597	Special Desig: L		I` '	Type: STUB GRAVITY		Fnd: CIP REINF CONCRETE PILES(OTHER DIAMETER)
(6) Avg. Daily Traffic(ADT): 21,630	(7) ADT Year: 2001		Abut-Fwd Matl: CONCRETE	Type: STUB GRAVITY	F	Fnd: CIP REINF CONCRETE PILES(OTHER DIAMETER)
(8) Truck Traf: 2,120 (14) NHS: YES - N				Type: CAPPED COLUMN		Fnd: CIP REINF CONCRETE PILES(OTHER DIAMETER)
(16) Functional Class: INTERSTATE-URBAN		(19) Strahnt: Interstate	Pier-Other Matl: NONE	Type: NONE	F	Fnd: OTHER
Intersecte	d Route Data		Pier-Other Matl: NONE	Type: NONE	F	Fnd: OTHER
(22) Route On/Under: UNDER	Hwy Sys: MUNICIPA	AL STREET	No of Piers Predominate: 03	Other: NN	(Other: NN
Route No.: E14TH Dir:	Des: 1	Pref:	(86) Stream Velocity: NNN	(74) Scour: BRIDGE NOT (VER WATERW	/AY
(23) Feature Intersected: IR 77 SB MAINL	INE		(189) Dive: N Freq: 0	Probe: N Freq: 0	((75) Chan Prot: N/A
(24) County: CUY Mileage: 2038	Special Desig:		(189) Date of last Dive Insp:	(152) Drainage Area: NNN	I Sq Mi	` '
(25) Avg. Daily Traffic(ADT): 1,000	(26) ADT Year: 1973	3		-	der the Bridge	
(27) Truck Traf: 0 (28) NHS: NO - X	(29) Corridor: N		(156) Min. Horiz Under Clear:	NC: 50.0 Ft		Card: 42.0 Ft
(30) Functional Class: Local ROAD-URBAN	(36) \$	Strahnt: Not Applicable	I' '	18.8 Ft		
Clearance	On the Bridge		· ,	NC: 15.2 Ft	(Card: 18.8 Ft
(154) Min Hriz on Bridge:	NC: 0.0 Ft	Card: 35.8 Ft	·	NC: 17.0 / 10.0 Ft		Card: 17.0 / 10.0 Ft
(155) Prac Max Vert On Brg:	9999.9 Ft		Load Rating Informa			(88-89) Appraisal
(67) Min Vrt CIr On Brg:	NC: 0.0 Ft	Card: 9999.9 Ft	(48) Design Load: HS/20-44 & ALTERNATE		(Including calcu	
(80) Min Latl Clr:	NC: 2.9 / 8.5 Ft	Card: 0.0 / 0.0 Ft	(83) Operating: 45 Ton		(,
(81) Vrt Clr Lft:	0.0 Ft		Inventory: 36 Ton			
	Information		Ohio Percent of Legal Load 150		(88) Waterway	Adequacy N
(38) Bypass Length: 01 Miles			Year of Rating: 1986		(89) Approach A	
(39) Latitude: 41 Deg 29.8 Min	Longitude: 81 Deg 4	0.6 Min	(84) Analysis: WORKING STRESS (WS)		Calc Gen Appra	=
(40) Toll: ON FREE ROAD			(85) Rate Soft: BARS Analyzed by:		Calc Deck Geor	
(41) Date Built: 07/01/1963	(42) Major Rehabilita	ation:	Analysis on Bars: WRKG STRESS ANALYS	IS	Calc Underclear	•
(43) No. Lanes On: 1	No. Lanes Under: 6				Information	
(44) Horiz Curve: 01 Deg. 30 Min.	(45) Skew: 99 Deg		(109) Approach Guardrail: STEEL BEAM	•		
(49) App. Rdw Width: 36 Ft	(50) Brg. Rdw Width		(110) Approach Pavement: BITUMINOUS		(111) Grade: FA	AIR
(51) Deck Width: 40.5 Ft	Deck Area: 11625 S	q. Ft			nformation	
(52) Median Type: NONE / NON BARRIE	NO JOINT		(131) Culvert Type: NONE/NOT APPLICBLE		(127) Length: 0.	. 0 Ft
(53) Bridge Median: NO MEDIAN			(129) Depth of Fill: 0.0 Ft		(130) Headwalls	
(54) Sidewalks:	(left) 0 Ft	(right) 0 Ft		General I	nformation	
(55) Type Curb or Sidewalks:			(121) Main Member WELDED BUILT-UP ST	EEL		(122) Moment Plate: RIVETED OR BOLTED
(Left) Matl: CONCRETE	Type: SAFETY CUR	` '	(169) Expansion Joint: SLIDING METAL PLA			` '
(Right) Matl: CONCRETE	Type: SAFETY CUR	, ,	(124) Bearing Devices: ROCKERS/NONE			
(56) Flared: Y	(57) Composite: non	•	(126) Navigation: Control- X	Vert Clr: 0.0 Ft		Horiz Clear:: 0.0 Ft
(58) Railing: REINF CONCR SAFETY CUR		KAIL	(193) Spec Insp: N	Freq: 0		Date:
(59) Deck Drainage: INLETS W/DRN PIPE			(188) Fracture Critical Insp: N	Freq: 0		Date:
(60) Deck Type: REINF CONCRT (PREST	KOD, PRECASI		(138) Long Member: NOT APPLICABLE			(135) Hinges: NOT APPLICABLE
(61) Deck Protection: External: OTHER Internal: NONE			(141) Structural Steel Memb: UNKNOWN			(139) Framing:
	NEIED CONODETE	OVEDI AV				Railing: UNKNOWN
(62) Wearing Surface: MICROSILICA MOI			Pay Wt: 0 pounds	Prime Loc: UNKNOWN		Paint: PAINT SYSTEM OZEU
Thickness: 2.2 in (119) Date of Wearing	•	JU	Bridge Dedicated Name:			
Slope Protection: CONCRETE (CAST-IN-F	LACE					

Unit of Measure: English
Structure File Number 1807919
Inver
Sufficiency Rating: 92.9

Bridge Inventory Information
Inventory Bridge Number: CUY 00077 1597 L
ON FAST 14TH ST

Report Date 10/15/2009 BM-191 Page: 2 of 2 BR. Type STEEL/BEAM/CONTINUOUS Date of Last Inventory Update: 12/22/2008

CUY-E14TH-2038 -

General Information (Continued) Original Plans Information (---) Hist Significance: NOT HISTORIC (69) NBIS: Y (142) Fabricator: (---) Hist Builder: NONE N/A Hist Build Year: 143) Contractor: (69) Hist Type: NONE N/A (144) Ohio Original Construction Project No.: 006860 (161) Special Features (see below): ---) Microfilm Reel: CUY021 (105) Border Bridge State: Resp % (106) SFN: (151) Standard Drawing: Proposed Improvements **Programming Info** Aperture Cards: Orig: N Repair: Y Fabr: N (90) Type Work: -PID Number: **24169** Plan Information Available: 1PLAN INFORMATION AVAILABLE PID Status: IA-OTHER (153) Repair Projects (90) Length: Ft PID Date: **04/03/2003** 1. / 020 2. 860277 / 020 3. 920725 / 041 (90) Bridge Cost (\$1000s): 0 5. / 004 6. / 040 (90) Roadway Cost (\$1000s): 0 7. **/ 059** 8. 9. (90) Total Project Cost (\$1000s): 0 (90) Year: 10. (91) Future ADT (On Bridge): 0 (92) Year of Future ADT: 2027 **Inspection Summary** (I-69) Survey Items Utilities **Special Features** (I-8) Deck: 5 1 MEETS CURRENT STANDARDS Railings: (46) Electric: U (161) Lighting: (I-32) Superstructure: 7 Transitions: 1 MEETS CURRENT STANDARDS U Ν Gas: Fencina: (I-42) Substructure: 6 Guardrail: 1 MEETS CURRENT STANDARDS Sanitary Sewer: U Glare-Screen: Ν (I-50) Culvert: Rail Ends: 1 MEETS CURRENT STANDARDS Telephone: U Splash-Guard: Ν (I-54) Channel: Pavement Mark: 1 MEETS CURRENT STANDARDS TV Cable: U Catwalks: Ν (I-60) Approaches: 6 Restrict Sign: N NONE N/A Water: U Other-Feat: U (I-66) General Appraisial: 6 Warning Sign: N NONE N/A U Ν Other: (184) Signs-on: (I-66) Operational Status: A End Markers: N NONE N/A Signs-Under: Ν Inspection Date: 07/09/2008 Insp. Update Date: 01/28/2009 0.0 Ft 162) Fence-Ht: (94) Desig Insp Freq: 12 Months 163) Noise Barr: Ν SFNs Replacing this retired bridge: SFNs That where replaced by this bridge: This bridge was retired and copied to: The bridge was copied from: INV Field Bridge Marker: CUY-00077-1597 -L

INT Field Bridge Marker:

Elem No.	CoRe Element Description	ent Description Total Quantity Unit Meas.				Condition Sta Percents(*)				
				1	2	3	4	5		
22	CONCRETE DECK PROTECTED W/RIGID OVERLAY	1	EA	0	0	0	0	0		
321	REINFORCED CONCRETE APPROACH SLAB	2	EA	0	0	0	0	0		
333	MISCELLANEOUS - BRIDGE RAILING	574	LF	0	0	0	0	0		
		(*\ Dc	rcontages S	hou	ld a	4 PP	<u>^ 11</u>	<u> </u>		

Type Service

1 8 0 7 9 1 9

 $\begin{array}{ccc} \text{Bridge Number} & \underline{CUY} & \underline{00077} & \underline{1597} \\ \text{CO} & \text{ROUTE} & \text{UNIT} \end{array}$

L CLEVELAND

1

Date Built 07/01/1963

CUY

District 12 Bridge Type STEEL/BEAM/CONTINUOUS **11 EAST 14TH ST** DECK Out/Out 40.5 THCK = 2.2 2 C-MICROSILICA MODIFIED C W.S. Date = 11/15/2000 1-REINF CONCRT (PRESTRSD 1. Floor 2. Wearing Surface 2 1-CONCRETE 3. Curbs, Sidewalks, Walkways 4. Median 2 3-REINF CONCR SAFETY CUR 10 5. Railing 6. Drainage 4-INLETS W/DRN PIPES 5 7. Expansion Joints 2-SLIDING METAL PLATE AN 11 8. Summary SUPERSTRUCTURE MAX.SPAN=100 9. Alignment 10. Beams/Girders/Slab 3-WELDED BUILT-UP STEEL TOT.LGTH=287 11. Diaphragms or Crossframes 12. Joists/Stringers 13. Floor Beams 14. Floor Beam Connections 15. Verticals 16. Diagonals 17. End Posts 18. Top Chord 19. Lower Chord 20. Lower Lateral Bracing 21. Top Lateral Bracing 22. Sway Bracing 2-ROCKERS 23. Portals 24. Bearing Devices N-NONE 25. Arch 26. Arch Columns or Hangers TYPE = 5-PAINT SYSTEM OZEU 28. Protective Coating System DATE = 01/01/198627. Spandrel Walls 29. Pins/Hangers/Hinges 30. Fatigue Prone Connections 31. Live Load Response 32. Summary SUBSTRUCTURE 2-CONCRETE PIERS=3 SPANS = 4 2 33. Abutments 2-CONCRETE 24 34. Abutment Seats 35. Piers TYPE = 2-CONCRETE 25 36. Pier Seats ABUTMENT:=CIP REI / CIP REI 2 37. Backwalls 38. Wingwalls N-BRIDGE NOT OVER WATERW 6 40. Scour 39. Fenders and Dolphins 6 41. Slope Protection 1-CONCRETE (CAST) 28 42. Summary DIVE DT=N/A **CULVERTS** 43. General 44. Alignment 45. Shape 46. Seams 47. Headwalls or Endwalls 48. Scour 50. Summary **CHANNEL** 51. Alignment 52. Protection 53. Waterway Adequacy 54. Summary **APPROACHES** 55. Pavement 2-BITUMINOUS 35 56. Approach Slabs 57. Guardrail 1-STEEL BEAM 36 58. Relief Joints BRDG.WIDTH=35.8 37 59. Embankment 60. Summary PCT.LEGAL=150 ROUTINE.RESP: 1-OHIO TRAN DEPT **GENERAL** MAINT.RESP: 1-OHIO TRAN DEPT 61. Navigation Lights 62. Warning Signs MVC ON=9999 UND=15.2 63. Sign Supports 65. Vertical Clearance 66. General Appraisal & Operational Status 67. INSPECTED BY 68. REVIEWED BY **DOT 2852 DECK AREA 11,625**

BR-86 REV 02-95

1 8 0 7 9 1 9

Deck

Deck

Deck

Deck

Deck

Deck

Bridge Number CO 00077 1597 LINIT

Date Built 07/01/1963

District 12 Bridge Type STEEL/BEAM/CONTINUOUS

Type Service <u>1</u> <u>1</u> <u>1</u>

EAST 14TH ST

Deck FLOOR: TIMBER-SUBDECKED OVER TRAFFIC. CRACKS.

AT LEAST 15% MOTTLED. 100 SF SPALLED.

Deck 30 LF OF REBAR HAS FALLEN OFF THE LEFT DECK EDGE IN

SPAN #1. DECK IS 4 INCHES THICK AT OPEN JOINT

BETWEEN WB I-90 BRIDGE NEAR START ABUTMENT DUE TO SPALLING OF EDGE (TRAFFIC RUNS ACROSS JOINT); SEE ATTACHED PHOTO #1 DATED 5/02/06. 360 DEGREE EXPOSURE

OF REBARS ALONG OPEN LONGITUDINAL JOINT.

Deck FLOOR IS 10-15% DET.

Deck WS: WIDE CRACKS. 20 SF OF CONCRETE PATCHES.

Deck WS IS 1-5% DET.

Deck CURBS: CRACKS. SPALLS.

Deck BRAILS: CRACKS. A FEW SPALLS. COLLISION DAMAGE TO STEEL

Deck PANELS OF BOTH BRAILS. BRAIL SPALL FORMING OVER
Deck TRAFFIC; SEE ATTACHED WORK ORDER 240 2009 5.

DRAINAGE: DEBRIS AND DIRT AS THICK AS 4 INCHES IN RIGHT

eck BERM.

Superstructure BEARINGS: HEAVY RUSTING. SOME ROCKERS ARE PARTIALLY

Superstructure ENGULFED IN DIRT AND DEBRIS.
Superstructure PAINT: 1% RUST. PAINT 1-5% DET.

Substructure ABUTMENTS: HEAVY DEBRIS ON START ABUTMENT SEAT.
Substructure DELAMINATIONS. ONE SF SPALL OF FINISH ABUTMENT

Substructure BELOW BAY #1.

Substructure PIERS: DELAMINATIONS AND SPALLS OF PIER CAP #1.

Substructure BACKWALLS: SPALL IN FINISH BACKWALL BEHIND GIRDER #1 WITH

Substructure ONE LF OF 360 DEGREE REBAR EXPOSURE; LTV OF SPALL

Substructure IS (6 INCHES, 22 INCHES, 10 INCHES).

Substructure PLYWOOD FORMWORK IN BAY #4 AT START BACKWALL.

Approaches PAVEMENT: WIDE LONGITUDINAL CRACKS IN START APPROACH

Approaches PAVEMENT.

Unit of Measure: English Structure File Number 1807552 Sufficiency Rating: 90.6 SD			Bridge Inventory Informa Inventory Bridge Number:CUY 000 ON EAST 9TH ST		Report Date 10/15/2009 BM-191 Page: 1 of 2 BR. Type STEEL / BEAM / CONTINUOUS Date of Last Inventory Update: 01/26/2009	
District: 12	Coun	ity CUYAHOGA	(101) Loca	ation: .12 MI. W. OF JCT I-77		(102) Facility Carried: RAMP EN
(2)FIPS Code: CLEVELAND		•	(103) Rout	te On Bridge: STATE (ODOT)		(104) Route Under Bridge: MUNICIPAL
(9) Direction of Traffic: 1-WAY TRAFFIC	(10)	Temporary: N		Network: Y	(1	12)Parallel: N
(95) Insp: OHIO TRAN DEPT (96) Maint: (OHIO TRAN DEPT (9	7) Routine: OHIO TRA	(100) Type	e Serv: (On): HIGHWAY	(l	Under): HIGHWAY, WITH OR WIT
Inventory	Route Data		(63) Main Spans Number: 3	Type: STEEL / BEAM / COI	NTINUOUS	·
(3) Route On/Under: ON	Hwy Sys: INTERSTA	ATE HIGHWAY	Approach Spans Number: 0	Type: NONE / NONE / NON	IE	
Route No.: 00090 Dir:	Des: RAMP OR		Total Spans: 3	(65) Max Span: 87 Ft	((66) Overall Leng: 231 Ft
	WYE		(70) Substructure	(71) Foundation and Scour		· · ·
(4) Feature Intersected: EAST 9TH ST			Abut-Rear Matl: CONCRETE	Type: STUB GRAVITY		Fnd: CIP REINF CONCRETE PILES(OTHER DIAMETER)
(5) County: CUY Mileage: 1628	Special Desig: EW		Abut-Fwd Matl: CONCRETE	Type: STUB GRAVITY		Fnd: CIP REINF CONCRETE PILES(OTHER DIAMETER)
(6) Avg. Daily Traffic(ADT): 6,090	(7) ADT Year: 2001		Pier-Pred Matl: CONCRETE	Type: CAPPED COLUMN		Fnd: CIP REINF CONCRETE PILES(OTHER DIAMETER)
(8) Truck Traf: 560 (14) NHS: YES - N			Pier-Other Matl: NONE	Type: NONE		Fnd: OTHER
(16) Functional Class: INTERSTATE-URBAN		(19) Strahnt: Interstate	Pier-Other Matl: NONE	Type: NONE	F	Fnd: OTHER
	d Route Data		No of Piers Predominate: 02	Other: NN		Other: NN
(22) Route On/Under: UNDER	Hwy Sys: MUNICIPA	AL STREET	(86) Stream Velocity: NNN	(74) Scour: BRIDGE NOT C		
Route No.: 0E9TH Dir:	Des: 1	Dunt.	(189) Dive: N Freq: 0	Probe: N Freq: 0		(75) Chan Prot: N/A
(23) Feature Intersected: E9TH TOGO 90\	VB		(189) Date of last Dive Insp:	(152) Drainage Area: NNN	•	(() () () () () () () () () (
(24) County: CUY Mileage: 0002	Special Desig:		(100) Date of last Dive mop.	, , , <u> </u>	der the Bridge	
(25) Avg. Daily Traffic(ADT): 100	(26) ADT Year: 1970)	(156) Min. Horiz Under Clear:	NC: 24.0 Ft		Card: 35.0 Ft
(27) Truck Traf: 0 (28) NHS: NO - X	(29) Corridor: N		(157) Prac Max Vrt Under Clear:	15.3 Ft	`	Sara. 99.91 t
(30) Functional Class: Local Road-URBAN	(36) \$	Strahnt: Not Applicable	(77) Min Vert Under Clear:	NC: 15.3 Ft	(Card: 15.2 Ft
Clearance	On the Bridge		(78) Min Lat Under Clear:	NC: 1.0 / 10.0 Ft		Card: 1.0 / 10.0 Ft
(154) Min Hriz on Bridge:	NC: 0.0 Ft	Card: 18.4 Ft	Load Rating Inf		`	(88-89) Appraisal
(155) Prac Max Vert On Brg:	9999.9 Ft		(48) Design Load: HS/20-44 & ALTERN		(Including calcu	
(67) Min Vrt Clr On Brg:	NC: 0.0 Ft	Card adda a Ft	(83) Operating: 45 Ton	VATE IMIEITAKT EGADING	(morading calcu	idica italia)
(80) Min Latl Clr:	NC: 2.7 / 6.5 Ft	Card: 00/00 Ft	Inventory: 33 Ton			
(81) Vrt Clr Lft:	0.0 Ft		Ohio Percent of Legal Load 150		(88) Waterway /	Adequacy N
Structure	Information		Year of Rating: 1986		(89) Approach A	
(38) Bypass Length: 02 Miles			(84) Analysis: WORKING STRESS (WS		Calc Gen Appra	=
(39) Latitude: 41 Deg 29.7 Min	Longitude: 81 Deg 4	A A Min	(85) Rate Soft: BARS Analyzed by:		Calc Gen Appra	
(40) Toll: ON FREE ROAD			Analysis on Bars: WRKG STRESS AN		Calc Deck Geor Calc Underclear	
(41) Date Built: 07/01/1962	(42) Major Rehabilita	ation:	Analysis on Bars. With STILES AND		Information	rance. •
(43) No. Lanes On: 1	No. Lanes Under: 8		(109) Approach Guardrail: STEEL BEA		illorillation	
(44) Horiz Curve: 02 Deg. 00 Min.	(45) Skew: 99 Deg		(110) Approach Guardiali. STEEL BEA (110) Approach Pavement: BITUMINOU		(111) Grade: F A	AID.
(49) App. Rdw Width: 18 Ft	(50) Brg. Rdw Width	: 18.4 Ft	(110) Approach i avement. Bit own to			AIIX
(51) Deck Width: 20.7 Ft	Deck Area: 4779 Sq	. Ft	(131) Culvert Type: NONE/NOT APPLIC		nformation	0.5
(52) Median Type: NONE / NON BARRIE	NO JOINT		(131) Curvert Type. NONE/NOT AFFER (129) Depth of Fill: 0.0 Ft		(127) Length: 0. (130) Headwalls	
(53) Bridge Median: NO MEDIAN			(129) Deptil of Fill. 0.0 Ft		, ,	S. NONE
(54) Sidewalks:	(left) 0 Ft	(right) 0 Ft	(424) Main Mambar BOLLED STEEL	General II	nformation	(400) Moment Plate: WELDED
(55) Type Curb or Sidewalks:			(121) Main Member ROLLED STEEL (169) Expansion Joint: SLIDING META	I DI ATE ANCI E		(122) Moment Plate: WELDED
(Left) Matl: CONCRETE	Type: SAFETY CUR	(B(<=2')	` , '			
(Right) Matl: CONCRETE	Type: SAFETY CUR	` '	(124) Bearing Devices: ROCKERS/NOI			Horiz Clear:: 0.0 Ft
(56) Flared: Y	(57) Composite: nor	n-composite	(126) Navigation: Control- X (193) Spec Insp: N	Vert Clr: 0.0 Ft		Date:
(58) Railing: REINFORCED CONCRETE 8			(188) Fracture Critical Insp: N	Freq: 0		Date:
(59) Deck Drainage: SCUPPERS & DWNS			(138) Long Member: NOT APPLICABL	Freq: 0		(135) Hinges: NOT APPLICABLE
(60) Deck Type: REINF CONCRT (PREST	RSD, PRECAST		(138) Long Member. NOT APPLICABL (141) Structural Steel Memb: UNKNOW			(139) Framing:
(61) Deck Protection: External: OTHER			(141) Structural Steel Mellib. UNKNOW	114		Railing: UNKNOWN
Internal: NONE			Pay Wt: 0 pounds	Prime Loc: UNKNOWN		Paint: EEU
(62) Wearing Surface: MICROSILICA MOI		OVERLAT	Pay Wt. 0 pounds Bridge Dedicated Name:	I IIIIG LOC. CIARINOWN		i aiiit. LLU
Thickness: 2.2 in (119) Date of Wearing	ng Surface: 11/15/200	00	Enage Decidated Hame.			

Unit of Measure: Englis Structure File Number 1 Sufficiency Rating: 90.6	807552			•	Report Date 10/15/2009 BM-191 Page: 2 of 2 BR. Type STEEL/BEAM/CONTINUOUS Date of Last Inventory Update: 01/26/2009				
		General Information	(Continued)				Original Plans Information		
() Hist Significance: N	IOT HISTORIC			(69) NBIS: Y	(142) Fabricator:		_		
() Hist Builder: NONE	N/A	Hist	Build Year:		(143) Contractor:				
(69) Hist Type: NONE N	N/A				(144) Ohio Original Cons	struction Project No.:	006860		
(161) Special Features	(see below):				() Microfilm Reel: CUY	′ 016			
(105) Border Bridge Sta	te: Resp % (10	6) SFN:			(151) Standard Drawing:	:			
	Proposed	Improvements		Programming Info	Aperture Cards: Orig: N				
(90) Type Work: -				PID Number: 24169 PID Status: IA-OTHER	Plan Information Availab		ATION AVAILABLE (153) Repair Projects		
(90) Length: Ft				PID Date: 04/03/2003	1. / 020	2. /		3. /	
(90) Bridge Cost (\$1000	Os): 0				4. / 040	5. /	004	6. / 040	
(90) Roadway Cost (\$10	000s): 0				7. / 059	8.		9.	
(90) Total Project Cost	(\$1000s): 0	(90)	Year:		10.				
(91) Future ADT (On Br	ridge): 0	(92)	Year of Future ADT: 2	027					
Inspection Su	mmary		(I-69) Survey Ite	ms		Utilities		Special Features	
(I-8) Deck:	4	Railings:	1 MEETS CURRE	NT STANDARDS	(46) Electric:	U	(161) Lighting:	Υ	
(I-32) Superstructure:	7	Transitions:	1 MEETS CURRE	NT STANDARDS	Gas:	U	Fencing:	N	
(I-42) Substructure:	6	Guardrail:	1 MEETS CURRE	NT STANDARDS	Sanitary Sewer:	U	Glare-Scree	en: N	
(I-50) Culvert:		Rail Ends:	1 MEETS CURRE	NT STANDARDS	Telephone:	U	Splash-Gua	ırd: N	
(I-54) Channel:		Pavement Mark:	1 MEETS CURRE	NT STANDARDS	TV Cable:	U	Catwalks:	N	
(I-60) Approaches:	7	Restrict Sign:	N NONE N/A		Water:	U	Other-Feat:	U	
(I-66) General Appraisia	al: 6	Warning Sign:	N NONE N/A		Other:	U	(184) Signs-on:	N	
(I-66) Operational Statu	s: A	End Markers:	N NONE N/A				Signs-Unde	r: N	
Inspection Date:	04/24/2009	Insp. Update Date:	10/12/2009				(162) Fence-Ht:	0.0 Ft	
(94) Desig Insp Freq:	12 Months						(163) Noise Barr:	N	
SFNs Replacing this ret	J		-						
SFNs That where replace		je:	-						
This bridge was retired									
The bridge was copied	from:				INV Field Bridge Marker: INT Field Bridge Marker:		CUY-00090-1628 CUY-0E9TH-0002		

PONTIS CoRe elements and Condition States

Slope Protection: CONCRETE (CAST-IN-PLACE)

Elem No.	lo. CoRe Element Description Total Quan		Unit Meas.	Co		tion cent		
				1	2	3	4	5
12	CONCRETE DECK - BARE	1	EA	0	0	0	0	0
321	REINFORCED CONCRETE APPROACH SLAB	2	EA	0	0	0	0	0
333	MISCELLANEOUS - BRIDGE RAILING	462	LF	0	0	0	0	0
		(*) Pe	rcentages S	hou	ld a	dd t	ი 10	10%

Type Service

<u>1</u>

11 EAST 9TH ST

BR-86 REV 02-95

1 8 0 7 5 5 2

District 12 Bridge Type STEEL/BEAM/CONTINUOUS

Bridge Number $\begin{array}{ccc} \underline{CUY} & \underline{00090} & \underline{1628} & \underline{EW} & \underline{CLEVELAND} \\ & & & & & \\ \hline & & & & \\ \hline \end{array}$

Date Built 07/01/1962

CUY

DECK Out/Out 20.7 THCK = 2.2 3 C-MICROSILICA MODIFIED C W.S. Date = 11/15/2000 1-REINF CONCRT (PRESTRSD 1. Floor 2. Wearing Surface 2 1-CONCRETE 3. Curbs, Sidewalks, Walkways 4. Median 1 2-REINFORCED CONCRETE & 10 5. Railing 6. Drainage 3-SCUPPERS & DWNSPTS 7. Expansion Joints 2-SLIDING METAL PLATE AN 11 8. Summary SUPERSTRUCTURE MAX.SPAN=87 9. Alignment 10. Beams/Girders/Slab 1-ROLLED STEEL TOT.LGTH=231 2 11. Diaphragms or Crossframes 12. Joists/Stringers 13. Floor Beams 14. Floor Beam Connections 15. Verticals 16. Diagonals 17. End Posts 18. Top Chord 19. Lower Chord 20. Lower Lateral Bracing 21. Top Lateral Bracing 22. Sway Bracing 2-ROCKERS 23. Portals 24. Bearing Devices N-NONE 25. Arch 26. Arch Columns or Hangers TYPE = A-EEU 28. Protective Coating System DATE = 05/01/198527. Spandrel Walls 29. Pins/Hangers/Hinges 30. Fatigue Prone Connections 31. Live Load Response 32. Summary SUBSTRUCTURE 2-CONCRETE PIERS=2 SPANS = 3 2 33. Abutments 2-CONCRETE 24 34. Abutment Seats 35. Piers TYPE = 2-CONCRETE 25 36. Pier Seats ABUTMENT:=CIP REI / CIP REI 37. Backwalls 38. Wingwalls N-BRIDGE NOT OVER WATERW 6 40. Scour 39. Fenders and Dolphins 6 41. Slope Protection 1-CONCRETE (CAST) 28 42. Summary DIVE DT=N/A **CULVERTS** 43. General 44. Alignment 45. Shape 46. Seams 47. Headwalls or Endwalls 48. Scour 50. Summary **CHANNEL** 51. Alignment 52. Protection 53. Waterway Adequacy 54. Summary **APPROACHES** 55. Pavement 2-BITUMINOUS 35 56. Approach Slabs 57. Guardrail 1-STEEL BEAM 36 58. Relief Joints BRDG.WIDTH=18.4 37 59. Embankment 60. Summary PCT.LEGAL=150 ROUTINE.RESP: 1-OHIO TRAN DEPT **GENERAL** MAINT.RESP: 1-OHIO TRAN DEPT 61. Navigation Lights 62. Warning Signs MVC ON=9999 UND=15.2 63. Sign Supports 65. Vertical Clearance 66. General Appraisal & Operational Status 67. INSPECTED BY 68. REVIEWED BY **DOT 2852** DECK AREA 4,779

1 8 0 7 5 5 2

Bridge Number <u>CUY</u> 00090 ROUTE <u>1628</u> <u>EW</u> Date Built 07/01/1962

District 12 Bridge Type STEEL/BEAM/CONTINUOUS

Type Service 1 11 EAST 9TH ST

FL: TIMBER SUB-DECKED. 25% MOTTLED. 120 SF SPALLED. LEACHING Deck MAP CRACKS, 6" DEEP DETERIORATION OF LEFT DECK EDGE Deck NEAR FINISH (WEST) ABUTMENT WITH EXPOSED REBAR. FLOOR IS Deck

30 TO 40 % DETERIORATED. Deck

WS: AREAS OF MAP CRACKING. TRANSVERSE & LONGITUDINAL CRACKS. Deck

MINOR DELAMINATIONS. 1-5% DETERIORATED. Deck

CURBS: CRACKS. SPALLS WITH 2' OF 360 DEGREE REBAR EXPOSED Deck

Deck AT FINISH, BY MERGE.

Deck RAILING: MINOR DELAMINATIONS & SPALLS.

Superstructure BEAMS: RUSTING SECTION LOSS NEAR ABUTMENTS. XFRAMES: HEAVY ENDFRAME RUSTING SECTION LOSS. Superstructure

BEARINGS: FINISH ABUTMENT ROCKER 1 IS TIPPED OUT TO MAX Superstructure

Superstructure @ 65 DEGREES F.

PCS: 1% RUST. PAINT FAILING AT BEAM ENDS. FADED PAINT. 5-10% Superstructure

DET. SEE ITEM BEAMS ABOVE. Superstructure

Superstructure FPC: ENDS OF WELDED COVER PLATES ON BOTTOM FLANGES ARE IN

POSITIVE MOMENT AREAS. Superstructure

ABUTMENTS: SPALLS. CRACKS. SCALING. DELAMINATIONS. SEE Substructure

Substructure ATTACHED PHOTO DATED 04/24/09.

ABUTMENT SEATS: SPALLS & DELAMINATIONS. DIRT AND DEBRIS ON Substructure

BOTH SEATS. Substructure

Substructure BACKWALLS: CRACKS. MINOR DELAMINATIONS. LARGE SPALL BEHIND

Substructure BEAM 1R AT START (EAST). MINOR SPALLS AT FINISH.

SLOPE PROTECTION: CRACKS. Substructure

Approaches PAVEMENT: ASPHALT PATCHES. MINOR POTHOLES @ FINISH. GUARDRAIL: MINOR COLLISION DAMAGE TO START-LEFT AND Approaches

Approaches START-RIGHT GUARDRAIL.

General CLAB

Unit of Measure: English Structure File Number 1807498 Sufficiency Rating: 85.2 SD			Bridge Inventory Information Inventory Bridge Number:CUY 00090 1 ON EAST 9TH ST (NORTH HALI	1628 L		Report Date 10/15/2009 BM-191 Page: 1 of 2 BR. Type STEEL / BEAM / CONTINUOUS Date of Last Inventory Update: 01/26/2009
District: 12 (2)FIPS Code: CLEVELAND (9) Direction of Traffic: 1-WAY TRAFFIC (95) Insp: OHIO TRAN DEPT (96) Maint: C	(10) ٦	ty CUYAHOGA Femporary: N 7) Routine: OHIO TRA	(103) Route On (11)Truck Netw	.12 MI W. OF JCT I-77 Bridge: STATE (ODOT) ork: Y v: (On): HIGHWAY	,	(102) Facility Carried: I-90 WB. (104) Route Under Bridge: MUNICIPAL 2)Parallel: L nder): HIGHWAY, WITH OR WIT
(3) Route On/Under: ON Route No.: 00090 Dir: (4) Feature Intersected: EAST 9TH ST (NO (5) County: CUY Mileage: 1628 (6) Avg. Daily Traffic(ADT): 49,860 (8) Truck Traf: 4,215 (14) NHS: YES - N (16) Functional Class: INTERSTATE-URBAN Intersecte (22) Route On/Under: UNDER Route No.: 0E9TH Dir: (23) Feature Intersected: IR 90 (24) County: CUY Mileage: 0001 (25) Avg. Daily Traffic(ADT): 100	Special Desig: L (7) ADT Year: 2007 (15) Corridor: Y d Route Data Hwy Sys: MUNICIPA Des: 1 Special Desig: (26) ADT Year: 1970	Pref: (19) Strahnt: Interstate AL STREET Pref:	Total Spans: 3 (70) Substructure Abut-Rear Matl: CONCRETE Abut-Fwd Matl: CONCRETE Pier-Pred Matl: CONCRETE Pier-Other Matl: NONE Pier-Other Matl: NONE No of Piers Predominate: 02 (86) Stream Velocity: NNN (189) Dive: N Freq: 0 (189) Date of last Dive Insp:		Information Fr Fr Fr Fr O OVER WATERWA (7 N Sq Mi Inder the Bridge	75) Chan Prot: N/A
(30) Functional Class: LOCAL ROAD-URBAN	(29) Corridor: N (36) S On the Bridge NC: 0.0 Ft 9999.9 Ft	Strahnt: Not Applicable Card: 47.8 Ft	(157) Prac Max Vrt Under Clear: (77) Min Vert Under Clear: (78) Min Lat Under Clear:	NC: 24.0 Ft 15.4 Ft NC: 15.4 Ft NC: 1.0 / 10.0 Ft	Ca	ard: 35.0 Ft ard: 15.3 Ft ard: 1.0 / 10.0 Ft
(67) Min Vrt Clr On Brg: (80) Min Latl Clr:	NC: 0.0 Ft NC: 2.7 / 8.5 Ft 0.0 Ft	Card: 9999.9 Ft Card: 0.0 / 0.0 Ft	Load Rating Information (48) Design Load: HS/20-44 & ALTERNATE (83) Operating: 45 Ton Inventory: 35 Ton		(Including calcula	(88-89) Appraisal ated Items)
(38) Bypass Length: 02 Miles (39) Latitude: 41 Deg 29.7 Min (40) Toll: ON FREE ROAD (41) Date Built: 07/01/1962 (43) No. Lanes On: 3 (44) Horiz Curve: 02 Deg. 00 Min.	Information Longitude: 81 Deg 4 (42) Major Rehabilita No. Lanes Under: 8 (45) Skew: 99 Deg		Ohio Percent of Legal Load 150 Year of Rating: 1986 (84) Analysis: WORKING STRESS (WS) (85) Rate Soft: BARS Analyzed by: Analysis on Bars: WRKG STRESS ANALYS (109) Approach Guardrail: STEEL BEAM	sis	(88) Waterway Ad (89) Approach Ali Calc Gen Apprais Calc Deck Geom Calc Undercleara Information	lignment 8 sal: 6 netry: 4
(49) App. Rdw Width: 48 Ft (51) Deck Width: 51.8 Ft (52) Median Type: NONE / NON BARRIE / (53) Bridge Median: NO MEDIAN (54) Sidewalks: (55) Type Curb or Sidewalks:	(left) 0 Ft	q. Ft (right) 0 Ft	(131) Culvert Type: NONE/NOT APPLICBLE (129) Depth of Fill: 0.0 Ft (121) Main Member ROLLED STEEL	Culvert I	(111) Grade: FAI nformation (127) Length: 0.0 (130) Headwalls: nformation) Ft
(Left) Matl: CONCRETE (Right) Matl: CONCRETE (56) Flared: Y (58) Railing: REINFORCED CONCRETE & (59) Deck Drainage: SCUPPERS & DWNS (60) Deck Type: REINF CONCRT (PREST (61) Deck Protection: External: OTHER Internal: NONE (62) Wearing Surface: MICROSILICA MOI Thickness: 2.2 in (119) Date of Wearin Slope Protection: CONCRETE (CAST-IN-F	SPTS RSD, PRECAST DIFIED CONCRETE (ng Surface: 11/15/200	DVERLAY	(169) Expansion Joint: SLIDING METAL PL (124) Bearing Devices: ROCKERS/NONE (126) Navigation: Control- X (193) Spec Insp: N (188) Fracture Critical Insp: N (138) Long Member: NOT APPLICABLE (141) Structural Steel Memb: UNKNOWN Pay Wt: 0 pounds Bridge Dedicated Name:	ATE ANGLE Vert Cir: 0.0 Ft Freq: 0 Freq: 0 Prime Loc: UNKNOWN		Horiz Clear:: 0.0 Ft Date: Date: (135) Hinges: NOT APPLICABLE (139) Framing: Railing: UNKNOWN Paint: EEU

Unit of Measure: **English**Structure File Number **1807498**Inv.
Sufficiency Rating: **85.2 SD**

Bridge Inventory Information Inventory Bridge Number: CUY 00090 1628 L ON EAST 9TH ST (NORTH HALF)

Report Date 10/15/2009 BM-191 Page: 2 of 2 BR. Type STEEL/BEAM/CONTINUOUS Date of Last Inventory Update: 01/26/2009

General Information (Continued)					Original Plans Information			
() Hist Significance: No	OT HISTORIC			(69) NBIS: Y	(142) Fabricator:			
() Hist Builder: NONE	N/A	Hist E	Build Year:		(143) Contractor:			
(69) Hist Type: NONE N	/A				(144) Ohio Original Const	truction Project No.: 006860		
(161) Special Features (see below):				() Microfilm Reel: CUYO	016		
(105) Border Bridge Stat	te: Resp % (106	6) SFN:			(151) Standard Drawing:			
	Proposed	Improvements		Programming Info	Aperture Cards: Orig: N R	Repair: N Fabr: Y		
(90) Type Work: -				PID Number: 24169	Plan Information Available	e: 1PLAN INFORMATION AVA	AILABLE	
				PID Status: IA-OTHER		(153)	Repair Projects	
(90) Length: Ft				PID Date: 04/03/2003	1. / 020	2. / 020	3. 92	20725 / 041
(90) Bridge Cost (\$1000s	s): 0				4. <i>I</i>	5. / 049	6./0	040
(90) Roadway Cost (\$10	00s): 0				7. / 004	8. / 040	9./0	059
(90) Total Project Cost (90)	\$1000s): 0	(90)	Year:		10.			
(91) Future ADT (On Brid	dge): 0	(92)	Year of Future ADT: 2	027				
Inspection Sur	nmary		(I-69) Survey Ite	ms		Utilities	Spe	ecial Features
(I-8) Deck:	4	Railings:	1 MEETS CURRE	NT STANDARDS	(46) Electric:	U	(161) Lighting:	Υ
(I-32) Superstructure:	7	Transitions:	1 MEETS CURRE	NT STANDARDS	Gas:	U	Fencing:	N
(I-42) Substructure:	6	Guardrail:	1 MEETS CURRE	NT STANDARDS	Sanitary Sewer:	U	Glare-Screen:	N
(I-50) Culvert:		Rail Ends:	1 MEETS CURRE	NT STANDARDS	Telephone:	U	Splash-Guard:	N
(I-54) Channel:		Pavement Mark:	1 MEETS CURRE	NT STANDARDS	TV Cable:	U	Catwalks:	N
(I-60) Approaches:	7	Restrict Sign:	N NONE N/A		Water:	U	Other-Feat:	U
(I-66) General Appraisial	l: 6	Warning Sign:	N NONE N/A		Other:	U	(184) Signs-on:	N
(I-66) Operational Status	s: A	End Markers:	N NONE N/A				Signs-Under:	N
Inspection Date:	04/24/2009	Insp. Update Date:	10/12/2009				(162) Fence-Ht:	0.0 Ft
(94) Desig Insp Freq:	12 Months						(163) Noise Barr:	N
		I .			1			
SFNs Replacing this reti	red bridge:		-				ı	
SFNs That where replaced by this bridge:								
This bridge was retired a		•						
The bridge was copied fr	•				INV Field Bridge Marker:		CUY-00090-1628 -L	
					INT Field Bridge Marker:		CUY-0E9TH-0001 -	
					in a riela bilage Marker.		331-0E3111-0001 -	

Elem No.	CoRe Element Description	Total Quantity	Unit Meas.		Condition State Percents(*)			
				1	2	3	4	5
12	CONCRETE DECK - BARE	1	EA	0	0	0	0	0
321	REINFORCED CONCRETE APPROACH SLAB	2	EA	0	0	0	0	0
333	MISCELLANEOUS - BRIDGE RAILING	470	LF	0	0	0	0	0
		/*\ Dc	rcentages S	hou	Id a	44	o 10	'n

1 8 0 7 4 9 8

Bridge Number $\begin{array}{ccc} CUY & \underline{00090} & \underline{1628} \\ CO & ROUTE & UNIT \end{array}$

L CLEVELAND

Date Built 07/01/1962

District 12 Bridge Type STEEL/BEAM/CONTINUOUS Type Service 1 11 EAST 9TH ST (NORTH HALF) CUY DECK Out/Out 51.8 THCK = 2.2 3 C-MICROSILICA MODIFIED C W.S. Date = 11/15/2000 1-REINF CONCRT (PRESTRSD 1. Floor 2. Wearing Surface 2 1-CONCRETE 3. Curbs, Sidewalks, Walkways 4. Median 1 2-REINFORCED CONCRETE & 10 5. Railing 6. Drainage 3-SCUPPERS & DWNSPTS 7. Expansion Joints 2-SLIDING METAL PLATE AN 11 8. Summary SUPERSTRUCTURE MAX.SPAN=89 9. Alignment 10. Beams/Girders/Slab 1-ROLLED STEEL TOT.LGTH=236 2 11. Diaphragms or Crossframes 12. Joists/Stringers 13. Floor Beams 14. Floor Beam Connections 15. Verticals 16. Diagonals 17. End Posts 18. Top Chord 19. Lower Chord 20. Lower Lateral Bracing 21. Top Lateral Bracing 22. Sway Bracing 2-ROCKERS 23. Portals 24. Bearing Devices N-NONE 25. Arch 26. Arch Columns or Hangers TYPE = A-EEU 28. Protective Coating System DATE = 01/01/198527. Spandrel Walls 29. Pins/Hangers/Hinges 30. Fatigue Prone Connections 31. Live Load Response 32. Summary SUBSTRUCTURE 2-CONCRETE PIERS=2 SPANS = 3 2 33. Abutments 2-CONCRETE 24 34. Abutment Seats 35. Piers TYPE = 2-CONCRETE 25 36. Pier Seats ABUTMENT:=CIP REI / CIP REI 2 37. Backwalls 38. Wingwalls N-BRIDGE NOT OVER WATERW 6 40. Scour 39. Fenders and Dolphins 6 41. Slope Protection 1-CONCRETE (CAST) 28 42. Summary DIVE DT=N/A **CULVERTS** 43. General 44. Alignment 45. Shape 46. Seams 47. Headwalls or Endwalls 48. Scour 50. Summary **CHANNEL** 51. Alignment 52. Protection 53. Waterway Adequacy 54. Summary **APPROACHES** 55. Pavement 2-BITUMINOUS 35 56. Approach Slabs 57. Guardrail 1-STEEL BEAM 36 58. Relief Joints BRDG.WIDTH=47.8 37 59. Embankment 60. Summary PCT.LEGAL=150 ROUTINE.RESP: 1-OHIO TRAN DEPT **GENERAL** MAINT.RESP: 1-OHIO TRAN DEPT 61. Navigation Lights 62. Warning Signs MVC ON=9999 UND=15.3 63. Sign Supports 65. Vertical Clearance 66. General Appraisal & Operational Status 67. INSPECTED BY 68. REVIEWED BY **DOT 2852 DECK AREA 12,228**

BR-86 REV 02-95

1 8 0 7 4 9 8

Deck

Bridge Number CO 00090 1628 LINIT

Date Built 07/01/1962

District 12 Bridge Type STEEL/BEAM/CONTINUOUS

Type Service <u>1</u> <u>1</u> <u>1</u>

EAST 9TH ST (NORTH HALF)

Deck FL: TIMBER SUB-DECKED. LEACHING MAP CRACKS. EPOXY INJECTED

Deck AREAS. 35% MOTTLED. STALACTITES AS LONG AS 8". 20 SF OF

Deck SPALLS. 6" DETERIORATION ALONG RIGHT DECK EDGE NEAR

eck FINISH ABUTMENT. 25 TO 40% DETERIORATED.

WS: CRACKS. 120 SF OF CONCRETE PATCHES. A FEW LONGITUDINAL

Deck CRACKS. 1 TO 5% DETERIORATED.

CURBS: CRACKS AND SPALLS. 1' OF 360~ REBAR EXPOSURE.

Deck RAILING: CRACKS AND SPALLS. SOME RUST STAINS. PATCHED AREA

Deck IN LEFT PARAPET.

Deck DRAINAGE: DOWNSPOUT AT P2C1 IS PLUGGED.

Deck EXJT: MISSING RISER BARS AT START AND FINISH ARE ASPHALTED

Deck OVER

Superstructure BEAMS: RUSTING SECTION LOSS NEAR ABUTMENTS. 1/16" GAP
Superstructure BETWEEN TOP FLANGE OF SEVERAL START BEAM ENDS AND

Superstructure CONCRETE DECK.

Superstructure XFRAMES: ENDFRAME RUSTING SECTION LOSS.

Superstructure BEARINGS: RUSTING SECTION LOSS. ROCKER 1 @ FINISH TIPPED OUT

Superstructure @ 65 DEGREES F.

Superstructure PCS: 1% RUST. PAINT FAILING AT BEAM ENDS. FADED PAINT.

Superstructure 5-10% DETERIORATED.

Superstructure FPC: ENDS OF WELDED COVER PLATES ON BOTTOM FLANGES ARE IN

Superstructure POSITIVE MOMENT AREAS.

Substructure ABUTMENTS: A FEW SPALLS & DELAMINATIONS AT FINISH. LONG

Substructure HORIZONTAL CRACK 8" BELOW FINISH ABUTMENT SEAT.

PAVEMENT: NEW IN 2008.

Substructure ABUTMENT SEAT: CRACKS. SPALLS. DELAMINATIONS. 4" THICK DIRT

Substructure AND DEBRIS ON SEATS.

Substructure PIERS: SPALLS TO LEFT END OF BOTH PIER CAPS. DELAMS TO CAPS.

Substructure DELAMINATED COLUMN AREA ON P2C1.
Substructure BACKWALLS: DELAMINATIONS. SOME SPALLS.
Substructure SLOPE PROTECTION: CRACKS.

General CLAB

Approaches

Unit of Measure: English Structure File Number 1807714 Sufficiency Rating: 85.6 SD			Bridge Inventory Information Inventory Bridge Number: CUY 00090 1 ON EAST 9TH ST	628 R		Report Date 10/15/2009 BM-191 Page: 1 of 2 BR. Type STEEL / BEAM / CONTINUOUS Date of Last Inventory Update: 12/22/2008
District: 12	Coun	nty CUYAHOGA	(101) Location:	.12 MI. W. OF JCT I-77		(102) Facility Carried: I-90 EB.
(2)FIPS Code: CLEVELAND		•	(103) Route On	Bridge: STATE (ODOT)		(104) Route Under Bridge: MUNICIPAL
(9) Direction of Traffic: 1-WAY TRAFFIC	(10) 7	Temporary: N	(11)Truck Netwo		(1	2)Parallel: R
(95) Insp: OHIO TRAN DEPT (96) Maint: O	OHIO TRAN DEPT (9	7) Routine: OHIO TRA	(100) Type Serv	r: (On): HIGHWAY	(L	Jnder): HIGHWAY, WITH OR WIT
Inventory	Route Data		(63) Main Spans Number: 3	Type: STEEL / BEAM / CO	NTINUOUS	
(3) Route On/Under: ON	Hwy Sys: INTERSTA	ATE HIGHWAY	Approach Spans Number: 0	Type: NONE / NONE / NON	1E	
Route No.: 00090 Dir:	Des: MAINLINE	Pref:	Total Spans: 3	(65) Max Span: 89 Ft	(66) Overall Leng: 236 Ft
(4) Feature Intersected: EAST 9TH ST			(70) Substructure	(71) Foundation and Scour	Information	
(5) County: CUY Mileage: 1628	Special Desig: R		Abut-Rear Matl: CONCRETE	Type: STUB GRAVITY	F	Fnd: CIP REINF CONCRETE PILES(OTHER DIAMETER)
(6) Avg. Daily Traffic(ADT): 49,860	(7) ADT Year: 2004		Abut-Fwd Matl: CONCRETE	Type: STUB GRAVITY	F	Fnd: CIP REINF CONCRETE PILES(OTHER DIAMETER)
(8) Truck Traf: 4,215 (14) NHS: YES - N				Type: CAPPED COLUMN	F	Fnd: CIP REINF CONCRETE PILES(OTHER DIAMETER)
(16) Functional Class: INTERSTATE-URBAN		(19) Strahnt: Interstate	Pier-Other Matl: NONE	Type: NONE	F	Fnd: OTHER
	d Route Data			Type: NONE	F	Fnd: OTHER
(22) Route On/Under: UNDER	Hwy Sys: MUNICIPA		No of Piers Predominate: 02	Other: NN	(Other: NN
Route No.: E9TH Dir:	Des: 1	Pref:	, ,	(74) Scour: BRIDGE NOT (
(23) Feature Intersected: IR 90			· · ·	Probe: N Freq: 0	,	75) Chan Prot: N/A
(24) County: CUY Mileage: 0000	Special Desig:		(189) Date of last Dive Insp:	(152) Drainage Area: NNN		
(25) Avg. Daily Traffic(ADT): 100	(26) ADT Year: 1970)			nder the Bridge	
` '	(29) Corridor: N	Otrahat Nat Assallaahla	I' '	NC: 24.0 Ft	C	Card: 35.0 Ft
(30) Functional Class: Local Road-URBAN		Strahnt: Not Applicable	(101) I Tao Max VII Onaoi Oloai.	15.4 Ft		
	On the Bridge	Cond. FO O Ft	, , , , , , , , , , , , , , , , , , , ,	NC: 15.4 Ft		Card: 15.3 Ft
(154) Min Hriz on Bridge:	NC: 0.0 Ft	Card: 59.8 Ft	l' '	NC: 1.0 / 10.0 Ft	C	Card: 1.0 / 10.0 Ft
(155) Prac Max Vert On Brg: (67) Min Vrt Clr On Brg:	9999.9 Ft NC: 0.0 Ft	Card: 9999.9 Ft	Load Rating Informa			(88-89) Appraisal
(80) Min Latl Clr:	NC: 0.0 / 0.0 Ft	Card: 9999.9 Ft	(48) Design Load: HS/20-44 & ALTERNATE	MILITARY LOADING	(Including calcul	ated Items)
i i	0.0 Ft	Card. 2.7 / 6.3 Ft	(83) Operating: 45 Ton			
	Information		Inventory: 36 Ton		(00) 144	
(38) Bypass Length: 02 Miles	mormation		Ohio Percent of Legal Load 150		(88) Waterway A	
(39) Latitude: 41 Deg 29.7 Min	Longitude: 81 Deg 4	0.9 Min	Year of Rating: 1973		(89) Approach A	=
(40) Toll: ON FREE ROAD			(84) Analysis: WORKING STRESS (WS)		Calc Gen Appra	
(41) Date Built: 07/01/1962	(42) Major Rehabilita	ation:	(85) Rate Soft: BARS Analyzed by:	ic	Calc Deck Geon Calc Underclear	•
(43) No. Lanes On: 4	No. Lanes Under: 8		Analysis on Bars: WRKG STRESS ANALYS		Information	ance. 0
(44) Horiz Curve: 02 Deg. 00 Min.	(45) Skew: 99 Deg		(109) Approach Guardrail: STEEL BEAM	Approach	iniormation	
(49) App. Rdw Width: 60 Ft	(50) Brg. Rdw Width:	: 59.8 Ft	(110) Approach Pavement: BITUMINOUS		(111) Grade: FA	UR.
(51) Deck Width: 65.1 Ft	Deck Area: 15360 Sc	q. Ft	(110) Approach a avenient. Bit chinted		nformation	
(52) Median Type: NONE / NON BARRIE	/ NO JOINT		(131) Culvert Type: NONE/NOT APPLICBLE		(127) Length: 0.	0 Et
(53) Bridge Median: NO MEDIAN			(129) Depth of Fill: 0.0 Ft	-	(130) Headwalls	
(54) Sidewalks:	(left) 0 Ft	(right) 0 Ft	(120) Boptil of Fill. 0.0 Ft	General I	nformation	. NONE
(55) Type Curb or Sidewalks:			(121) Main Member ROLLED STEEL	Generali	mormation	(122) Moment Plate: WELDED
(Left) Matl: NONE	Type: NONE		(169) Expansion Joint: SLIDING METAL PLA	ATF ANGLE		(122) Moment Flate. WEEDED
(Right) Matl: NONE	Type: NONE		(124) Bearing Devices: ROCKERS/NONE			
(56) Flared: Y	(57) Composite: non	n-composite	(126) Navigation: Control- X	Vert Clr: 0.0 Ft		Horiz Clear:: 0.0 Ft
(58) Railing: REINF CONCR POST & STE			(193) Spec Insp: N	Freq: 0		Date:
(59) Deck Drainage: SCUPPERS & DWNS			(188) Fracture Critical Insp: N	Freq: 0		Date:
(60) Deck Type: REINF CONCRT (PREST	RSD, PRECAST		(138) Long Member: NOT APPLICABLE	•		(135) Hinges: NOT APPLICABLE
(61) Deck Protection: External: OTHER			(141) Structural Steel Memb: UNKNOWN			(139) Framing:
Internal: NONE	DIFIED CONCRETE	OVEDLAY				Railing: UNKNOWN
(62) Wearing Surface: MICROSILICA MOI			Pay Wt: 0 pounds	Prime Loc: UNKNOWN		Paint: PAINT SYSTEM OZEU
	ng Surface: 11/15/20 0	UU	Bridge Dedicated Name:			
Slope Protection: CONCRETE (CAST-IN-F	LACE					

Unit of Measure: **English** Structure File Number **1807714** Sufficiency Rating: **85.6** SD

Bridge Inventory Information

Inventory Bridge Number:CUY 00090 1628 R
ON EAST 9TH ST

Report Date 10/15/2009 BM-191 Page: 2 of 2 BR. Type STEEL/BEAM/CONTINUOUS Date of Last Inventory Update: 12/22/2008

CUY-E9TH -0000 -

General Information (Continued) Original Plans Information (---) Hist Significance: NOT HISTORIC (69) NBIS: Y (142) Fabricator: **AMER. BRIDGE** (---) Hist Builder: NONE N/A Hist Build Year: 143) Contractor: HORVITZ CO. (69) Hist Type: NONE N/A (144) Ohio Original Construction Project No.: 006860 (161) Special Features (see below): ---) Microfilm Reel: CUY016 (105) Border Bridge State: Resp % (106) SFN: (151) Standard Drawing: Proposed Improvements **Programming Info** Aperture Cards: Orig: Y Repair: N Fabr: Y (90) Type Work: -PID Number: **24169** Plan Information Available: 1PLAN INFORMATION AVAILABLE PID Status: IA-OTHER (153) Repair Projects (90) Length: Ft PID Date: **04/03/2003** 1. / 020 2. / 020 3. 920725 / 041 (90) Bridge Cost (\$1000s): 0 5. / 040 6. / 004 (90) Roadway Cost (\$1000s): 0 7. **/ 040** 8. / 059 9. (90) Total Project Cost (\$1000s): 0 (90) Year: 10. (91) Future ADT (On Bridge): 0 (92) Year of Future ADT: 2027 Inspection Summary (I-69) Survey Items Utilities **Special Features** 4 1 MEETS CURRENT STANDARDS (I-8) Deck: Railings: (46) Electric: U (161) Lighting: (I-32) Superstructure: 7 Transitions: 1 MEETS CURRENT STANDARDS U Ν Gas: Fencina: (I-42) Substructure: 6 Guardrail: 1 MEETS CURRENT STANDARDS Sanitary Sewer: U Ν Glare-Screen: (I-50) Culvert: Rail Ends: 1 MEETS CURRENT STANDARDS Telephone: U Splash-Guard: Ν (I-54) Channel: Pavement Mark: 1 MEETS CURRENT STANDARDS TV Cable: U Catwalks: Ν (I-60) Approaches: 6 Restrict Sign: N NONE N/A Water: U Other-Feat: U (I-66) General Appraisial: 6 N NONE N/A Warning Sign: U Ν Other: (184) Signs-on: (I-66) Operational Status: A End Markers: N NONE N/A Signs-Under: Ν Inspection Date: 04/24/2009 Insp. Update Date: 10/12/2009 162) Fence-Ht: 0.0 Ft (94) Desig Insp Freq: 12 Months 163) Noise Barr: Ν SFNs Replacing this retired bridge: SFNs That where replaced by this bridge: This bridge was retired and copied to: The bridge was copied from: INV Field Bridge Marker: CUY-00090-1628 -R

INT Field Bridge Marker:

Elem No.	m No. CoRe Element Description Total		Unit Meas.	Co		tion cent		
				1	2	3	4	5
12	CONCRETE DECK - BARE	1	EA	0	0	0	0	0
321	REINFORCED CONCRETE APPROACH SLAB	2	EA	0	0	0	0	0
333	MISCELLANEOUS - BRIDGE RAILING	470	LF	0	0	0	0	0
-	•	(*\ Dc	rcentages S	hou	14.5	4 4	0 10	nno

Type Service

1 8 0 7 7 1 4

District 12 Bridge Type STEEL/BEAM/CONTINUOUS

Bridge Number $\begin{array}{ccc} \underline{CUY} & \underline{00090} & \underline{1628} \\ \hline & CO & ROUTE & UNIT \end{array}$

R CLEVELAND

11 EAST 9TH ST

1

Date Built 07/01/1962

CUY

DECK Out/Out 65.1 THCK = 2.2 3 C-MICROSILICA MODIFIED C W.S. Date = 11/15/2000 1-REINF CONCRT (PRESTRSD 1. Floor 2. Wearing Surface N-NONE 3. Curbs, Sidewalks, Walkways 4. Median 2 4-REINF CONCR POST & STE 10 5. Railing 6. Drainage 3-SCUPPERS & DWNSPTS 7. Expansion Joints 2-SLIDING METAL PLATE AN 11 8. Summary SUPERSTRUCTURE MAX.SPAN=89 9. Alignment 10. Beams/Girders/Slab 1-ROLLED STEEL TOT.LGTH=236 11. Diaphragms or Crossframes 12. Joists/Stringers 13. Floor Beams 14. Floor Beam Connections 15. Verticals 16. Diagonals 17. End Posts 18. Top Chord 19. Lower Chord 20. Lower Lateral Bracing 21. Top Lateral Bracing 22. Sway Bracing 2-ROCKERS 23. Portals 24. Bearing Devices N-NONE 25. Arch 26. Arch Columns or Hangers TYPE = 5-PAINT SYSTEM OZEU 28. Protective Coating System DATE = 01/01/198527. Spandrel Walls 29. Pins/Hangers/Hinges 30. Fatigue Prone Connections 31. Live Load Response 32. Summary SUBSTRUCTURE 2-CONCRETE PIERS=2 SPANS = 3 2 33. Abutments 2-CONCRETE 24 34. Abutment Seats 35. Piers TYPE = 2-CONCRETE 25 36. Pier Seats ABUTMENT:=CIP REI / CIP REI 37. Backwalls 38. Wingwalls N-BRIDGE NOT OVER WATERW 6 40. Scour 39. Fenders and Dolphins 6 41. Slope Protection 1-CONCRETE (CAST) 28 42. Summary DIVE DT=N/A **CULVERTS** 43. General 44. Alignment 45. Shape 46. Seams 47. Headwalls or Endwalls 48. Scour 50. Summary **CHANNEL** 51. Alignment 52. Protection 53. Waterway Adequacy 54. Summary **APPROACHES** 55. Pavement 2-BITUMINOUS 35 56. Approach Slabs 57. Guardrail 1-STEEL BEAM 36 58. Relief Joints 6 3 BRDG.WIDTH=59.8 37 59. Embankment 60. Summary PCT.LEGAL=150 ROUTINE.RESP: 1-OHIO TRAN DEPT **GENERAL** MAINT.RESP: 1-OHIO TRAN DEPT 61. Navigation Lights 62. Warning Signs MVC ON=9999 UND=15.3 63. Sign Supports 65. Vertical Clearance 66. General Appraisal & Operational Status 67. INSPECTED BY 68. REVIEWED BY **DOT 2852 DECK AREA 15,360**

BR-86 REV 02-95

1 8 0 7 7 1 4

Bridge Number CUY 00090 1628 F

Date Built 07/01/1962

District 12 Bridge Type STEEL/BEAM/CONTINUOUS

Type Service <u>1</u> <u>1</u> <u>1</u>

EAST 9TH ST

Deck FL: 12 SF SPALLED. EPOXY INJECTED AREAS. 20% MOTTLED.

Deck LEACHING CRACKS. STALACTITES. TIMBER SUB-DECKED. FLOOR

Deck IS 20-25% DETERIORATED.

Deck WS: CRACKS. 30 SF OF CONCRETE PATCHES. 2 SF ASPHALT PATCH.

eck <1% DET.

Deck RAILINGS: CRACKS. RUST STAINS. SPALLS.

Deck DRAINAGE: 3 OF 4 SCUPPERS AND DOWNSPOUT ARE PLUGGED IN

Deck BAY 1R AT START. 1" RUSTING THRU HOLE AND 1/4"

Deck SAW CUT NEAR ELBOW OF BAY 1R DOWNSPOUT. DOWNSPOUT
Deck AND SCUPPER ARE PLUGGED AT PIER 1. SEE EMBANKMENT.

Deck EXJT: MISSING RISER BARS @ START & FINISH.

Superstructure BEAMS: RUSTING SECTION LOSS AT BEAM ENDS. SLIGHT GAP BETWEEN

Superstructure TOP FLANGE OF FINISH BEAM ENDS 3 AND 4 AND DECK.

Superstructure XFRAMES: ENDFRAME RUSTING SECTION LOSS.

Superstructure BEARINGS: RUSTING SECTION LOSS. DEBRIS ENGULFED ROCKERS.
Superstructure PCS: 1% RUST. PAINT FAILING AT BEAM ENDS AND ALONG EDGES

Superstructure OF LOWER FLANGES. 1-5% DETERIORATED.

Superstructure FPC: ENDS OF WELDED COVER PLATES ON BOTTOM FLANGES ARE IN

Superstructure POSITIVE MOMENT AREAS.

Substructure ABUTMENTS: SPALLS. CRACKS. DELAMINATIONS.

Substructure ABUTMENT SEATS: SPALLS, SOME DELAMINATIONS, SPALL NEAR EDGE

Substructure OF MASONRY PLATE OF ROCKER 2R AT FINISH.

Substructure 4" THICK DIRT AND DEBRIS ON SEATS.

Substructure PIERS: 3 SF SPALL P2C1. CAP CRACKS, SPALLS & DELAMS.

Substructure BACKWALLS: MINOR SPALLS @ START. MINOR DELAMS. FAILED PATCH

Substructure IN FINISH BAY 4.

Substructure SLOPE PROTECTION: CRACKS.

Approaches GUARDRAIL: EROSION EXPOSES GUARDRAIL POST AT START-RIGHT.

Approaches EMBANKMENT: 8' WIDE AND 4' DEEP WASHOUT AT START-RIGHT

EXTENDS 24" UNDER APPROACH SLAB. SEE ATTACHED

Approaches PHOTOS DATED 04/24/09.

General CLAB

Approaches

Unit of Measure: English Structure File Number 1807773 Sufficiency Rating: 83.1 fo			Bridge Inventory Information Inventory Bridge Number:CUY 00090 ON IR 77 SB MAINLINE	1640		Report Date 10/15/2009 BM-191 Page: 1 of 2 BR. Type STEEL / BEAM / CONTINUOUS Date of Last Inventory Update: 05/21/2009
District: 12	Coun	ty CUYAHOGA	(101) Location:	JCT. I-77		(102) Facility Carried: I-90
(2)FIPS Code: CLEVELAND		•	(103) Route On	Bridge: STATE (ODOT)		(104) Route Under Bridge: MUNICIPAL
(9) Direction of Traffic: 2-WAY TRAFFIC	(10) T	emporary: N			(1	2)Parallel: N
(95) Insp: OHIO TRAN DEPT (96) Maint: C			• ,	r: (On): THIRD LEVEL (INT	,	Jnder): HIGHWAY, WITH OR WIT
	Route Data	<u>, </u>	(63) Main Spans Number: 3	Type: STEEL / BEAM / CO		,
_	Hwy Sys: INTERSTA	TE HIGHWAY		Type: NONE / NONE / NON		
Route No.: 00090 Dir:	Des: MAINLINE			(65) Max Span: 124 Ft		66) Overall Leng: 309 Ft
(4) Feature Intersected: IR 77 SB MAINLIN	IE			(71) Foundation and Scour		,
(5) County: CUY Mileage: 1640	Special Desig:			Type: STUB GRAVITY		nd: CIP REINF CONCRETE PILES(OTHER DIAMETER)
(6) Avg. Daily Traffic(ADT): 99,720	(7) ADT Year: 2007			Type: STUB GRAVITY		nd: CIP REINF CONCRETE PILES(OTHER DIAMETER)
(8) Truck Traf: 8,430 (14) NHS: YES - N	(15) Corridor: Y			Type: CAPPED COLUMN		nd: CIP REINF CONCRETE PILES(OTHER DIAMETER)
(16) Functional Class: INTERSTATE-URBAN				Type: NONE		nd: OTHER
Intersected	d Route Data			Type: NONE		nd: OTHER
(22) Route On/Under: UNDER	Hwy Sys: INTERSTA	TE HIGHWAY		Other: NN		Other: NN
Route No.: 00077 Dir:	Des: 1	Pref:		(74) Scour: BRIDGE NOT (
(23) Feature Intersected: IR 90			, ,	Probe: N Freq: 0		75) Chan Prot: N/A
(24) County: CUY Mileage: 1593	Special Desig: L		· · ·	(152) Drainage Area: NNNI	`	,
	(26) ADT Year: 2007		(100) = 310 01 1001 = 110 1110		nder the Bridge	
(27) Truck Traf: 2,690 (28) NHS: YES - N	(29) Corridor: Y		(156) Min. Horiz Under Clear:	NC: 0.0 Ft		Card: 39.0 Ft
(30) Functional Class: INTERSTATE-URBAN		(36) Strahnt: Interstate	· · · ·	15.8 Ft		, and
Clearance	On the Bridge			NC: 0.0 Ft	C	Card: 15.8 Ft
(154) Min Hriz on Bridge:	NC: 48.0 Ft	Card: 48.0 Ft		NC: 0.0 / 0.0 Ft	_	Card: 5.0 / 6.7 Ft
(155) Prac Max Vert On Brg:	9999.9 Ft		Load Rating Informa			(88-89) Appraisal
(67) Min Vrt Clr On Brg:	NC: 0.0 Ft	Card: 9999.9 Ft	(48) Design Load: HS/20-44 & ALTERNATE		(Including calculation	
(80) Min Latl Clr:	NC: 2.7 / 8.5 Ft		(83) Operating: 45 Ton		(morading carean	alou nomo,
(81) Vrt Clr Lft:	0.0 Ft		Inventory: 36 Ton			
Structure	Information		Ohio Percent of Legal Load 150		(88) Waterway A	Adequacy N
(38) Bypass Length: 01 Miles			Year of Rating: 1973		(89) Approach A	
(39) Latitude: 41 Deg 29.7 Min	Longitude: 81 Deg 40	0 0 Mi	(84) Analysis: WORKING STRESS (WS)		Calc Gen Apprai	=
(40) Toll: ON FREE ROAD			(85) Rate Soft: BARS Analyzed by:		Calc Deck Geom	
(41) Date Built: 07/01/1962	(42) Major Rehabilita	4:	Analysis on Bars: WRKG STRESS ANALYS	IS	Calc Underclear	•
(43) No. Lanes On: 6	No. Lanes Under: 2		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Information	
(44) Horiz Curve: 01 Deg. 30 Min.	(45) Skew: 99 Deg		(109) Approach Guardrail: STEEL BEAM			
(49) App. Rdw Width: 102 Ft	(50) Brg. Rdw Width:	102.0 Ft	(110) Approach Pavement: BITUMINOUS		(111) Grade: FA	JR
	Deck Area: 32238 Sc	ղ. Ft	()	Culvert l	nformation	
(52) Median Type: RAISED MED / STEEL	BARR / OPEN JOIN	Г	(131) Culvert Type: NONE/NOT APPLICBLE		(127) Length: 0.0	0 Ft
(53) Bridge Median: OPEN MEDIAN			(129) Depth of Fill: 0.0 Ft	-	(130) Headwalls	
` '	(left) 0 Ft	(right) 0 Ft	(125) 2 5641 511 1111 615 11	General I	nformation	
(55) Type Curb or Sidewalks:			(121) Main Member WELDED BUILT-UP ST		mormation	(122) Moment Plate: RIVETED OR BOLTED
,	Type: SAFETY CUR	` '	(169) Expansion Joint: SLIDING METAL PLA			(122)
` ` ` ` ` `	Type: SAFETY CUR	` '	(124) Bearing Devices: ROCKERS/NONE	/		
	(57) Composite: non	-composite	(126) Navigation: Control- X	Vert Clr: 0.0 Ft		Horiz Clear:: 0.0 Ft
(58) Railing: REINF CONCR POST & STE			(193) Spec Insp: N	Freq: 0		Date:
(59) Deck Drainage: SCUPPERS & DWNS			(188) Fracture Critical Insp: N	Freq: 0		Date:
(60) Deck Type: REINF CONCRT (PREST	RSD, PRECAST		(138) Long Member: NOT APPLICABLE	•		(135) Hinges: NOT APPLICABLE
(61) Deck Protection: External: OTHER			(141) Structural Steel Memb: UNKNOWN			(139) Framing:
Internal: NONE						Railing: UNKNOWN
(62) Wearing Surface: MICROSILICA MOI			Pay Wt: 0 pounds	Prime Loc: UNKNOWN	I	Paint: PAINT SYSTEM OZEU
	ng Surface: 04/11/200	15	Bridge Dedicated Name:			
Slope Protection: STONE (NO.1 AGGREG	AIL)					

Unit of Measure: **English** Structure File Number **1807773** Sufficiency Rating: **83.1 fo**

Bridge Inventory Information Inventory Bridge Number: CUY 00090 1640 ON IR 77 SB MAINLINE

Report Date 10/15/2009 BM-191 Page: 2 of 2 BR. Type STEEL/BEAM/CONTINUOUS Date of Last Inventory Update: 05/21/2009

CUY-00077-1593 -L

General Information (Continued) Original Plans Information (---) Hist Significance: NOT HISTORIC (69) NBIS: Y (142) Fabricator: **AMER. BRIDGE** (---) Hist Builder: NONE N/A Hist Build Year: 143) Contractor: HORVITZ CO. (69) Hist Type: NONE N/A (144) Ohio Original Construction Project No.: 006860 (161) Special Features (see below): ---) Microfilm Reel: CUY021 (105) Border Bridge State: Resp % (106) SFN: (151) Standard Drawing: Proposed Improvements **Programming Info** Aperture Cards: Orig: Y Repair: Y Fabr: Y (90) Type Work: -PID Number: **20578** Plan Information Available: 1PLAN INFORMATION AVAILABLE PID Status: PROGRAM (153) Repair Projects (90) Length: Ft PID Date: **06/01/2000** 1. / 020 2. 860277 / 020 3. 920725 / 041 (90) Bridge Cost (\$1000s): 0 5. / 004 6. / 040 (90) Roadway Cost (\$1000s): 0 8. 9. (90) Total Project Cost (\$1000s): 0 (90) Year: 10. (91) Future ADT (On Bridge): 0 (92) Year of Future ADT: 2027 **Inspection Summary** (I-69) Survey Items Utilities **Special Features** (I-8) Deck: 5 1 MEETS CURRENT STANDARDS Railings: 46) Electric: U (161) Lighting: (I-32) Superstructure: 7 Transitions: 1 MEETS CURRENT STANDARDS U Ν Gas: Fencina: (I-42) Substructure: 6 Guardrail: 1 MEETS CURRENT STANDARDS Sanitary Sewer: U Glare-Screen: Ν (I-50) Culvert: Rail Ends: 1 MEETS CURRENT STANDARDS Telephone: U Splash-Guard: Ν (I-54) Channel: Pavement Mark: 1 MEETS CURRENT STANDARDS TV Cable: U Catwalks: Ν (I-60) Approaches: 8 Restrict Sign: N NONE N/A Water: U Other-Feat: U (I-66) General Appraisial: 6 Warning Sign: N NONE N/A U Ν Other: (184) Signs-on: (I-66) Operational Status: A End Markers: N NONE N/A Signs-Under: Ν Inspection Date: 12/04/2008 Insp. Update Date: 03/03/2009 0.0 Ft 162) Fence-Ht: (94) Desig Insp Freq: 12 Months 163) Noise Barr: Ν SFNs Replacing this retired bridge: SFNs That where replaced by this bridge: This bridge was retired and copied to: The bridge was copied from: INV Field Bridge Marker: CUY-00090-1640 -

INT Field Bridge Marker:

Elem No. CoRe Element Description		Total Quantity	Unit Meas.	Co		tion cent		
				1	2	3	4	5
12	CONCRETE DECK - BARE	1	EA	0	0	0	0	0
321	REINFORCED CONCRETE APPROACH SLAB	2	EA	0	0	0	0	0
333	MISCELLANEOUS - BRIDGE RAILING	1232	LF	0	0	0	0	0
-		(*) Pe	rcentages S	hou	ld a	dd t	0 10	00%

1 8 0 7 7 7 3

Bridge Number $\begin{array}{cc} \underline{CUY} \\ \text{CO} \end{array}$ $\begin{array}{cc} \underline{00090} \\ \text{ROUTE} \end{array}$ $\begin{array}{cc} \underline{1640} \\ \text{UNIT} \end{array}$

CLEVELAND

Date Built 07/01/1962

District 12 Bridge Type STEEL/BEAM/CONTINUOUS Type Service 71 IR 77 SB MAINLINE CUY DECK Out/Out 104.3 THCK = 2.2 2 C-MICROSILICA MODIFIED C W.S. Date = 04/11/2005 1-REINF CONCRT (PRESTRSD 1. Floor 2. Wearing Surface 1-CONCRETE 2 1-CONCRETE 3. Curbs, Sidewalks, Walkways 4. Median 2 3 4-REINF CONCR POST & STE 10 5. Railing 6. Drainage 3-SCUPPERS & DWNSPTS 5 7. Expansion Joints 2-SLIDING METAL PLATE AN 11 8. Summary SUPERSTRUCTURE MAX.SPAN=124 1 9. Alignment 10. Beams/Girders/Slab 3-WELDED BUILT-UP STEEL TOT.LGTH=309 11. Diaphragms or Crossframes 12. Joists/Stringers 13. Floor Beams 14. Floor Beam Connections 15. Verticals 16. Diagonals 17. End Posts 18. Top Chord 19. Lower Chord 20. Lower Lateral Bracing 21. Top Lateral Bracing 22. Sway Bracing 2-ROCKERS 23. Portals N-NONE 24. Bearing Devices 25. Arch 26. Arch Columns or Hangers TYPE = 5-PAINT SYSTEM OZEU 28. Protective Coating System DATE = 01/01/198627. Spandrel Walls 29. Pins/Hangers/Hinges 30. Fatigue Prone Connections 31. Live Load Response 32. Summary SUBSTRUCTURE 2-CONCRETE PIERS=2 SPANS = 3 1 33. Abutments 2-CONCRETE 24 34. Abutment Seats 35. Piers TYPE = 2-CONCRETE 25 36. Pier Seats ABUTMENT:=CIP REI / CIP REI 37. Backwalls 38. Wingwalls N-BRIDGE NOT OVER WATERW 6 40. Scour 39. Fenders and Dolphins 6 41. Slope Protection 2-STONE (NO.1 AGGREGATE) 28 42. Summary DIVE DT=N/A **CULVERTS** 43. General 44. Alignment 45. Shape 46. Seams 47. Headwalls or Endwalls 48. Scour 50. Summary **CHANNEL** 51. Alignment 52. Protection 53. Waterway Adequacy 54. Summary **APPROACHES** 55. Pavement 2-BITUMINOUS 35 56. Approach Slabs 57. Guardrail 1-STEEL BEAM 36 58. Relief Joints 8 BRDG.WIDTH=102.0 37 59. Embankment 60. Summary PCT.LEGAL=150 ROUTINE.RESP: 1-OHIO TRAN DEPT **GENERAL** MAINT.RESP: 1-OHIO TRAN DEPT 61. Navigation Lights 62. Warning Signs MVC ON=9999 UND=0000 63. Sign Supports 65. Vertical Clearance 66. General Appraisal & Operational Status 67. INSPECTED BY 68. REVIEWED BY **DOT 2852 DECK AREA 32,238**

BR-86 REV 02-95

1 8 0 7 7 7 3

Deck

Deck

Deck

Deck

Substructure

Bridge Number CUY 00090 1640

Date Built 07/01/1962

District 12 Bridge Type STEEL/BEAM/CONTINUOUS

Type Service 1 7 1

IR 77 SB MAINLINE

Deck FL: TRANSVERSE CRACKS @ 10' SPACING. STALACTITES AS LONG AS
Deck 3". 10 SF OF SPALLS. 20% MOTTLED. EPOXY-INJECTED AREAS.

Deck 15-25% DETERIORATED.

Deck WS: CRACKS. 150 SF OF GOOD CONCRETE PATCHES TO EASTBOUND.

400 SF OF GOOD CONCRETE PATCHES TO WESTBOUND. 1-5%

Deck DETERIORATED.

CURBS: SPALLS AND DELAMINATIONS.

Deck MEDIAN: CRACKS. DELAMINATIONS. RUST STAINS. A FEW SPALLS.

Deck RAILINGS: MANY SPALLS AND DELAMINATIONS. MANY COLLISION

Deck DINGS TO STEEL.

DRAINAGE: 10% SCUPPERS PLUGGED. DOWNSPOUT ON P1C4 IS PLUGGED. DOWNSPOUT AT P1C1 HAS RUSTING THRU HOLES

Deck AT GROUND LEVEL.

Deck EXJTS: TOP FLANGES OF GIRDERS 4, 5, 6 & 7 ARE <1/4" FROM

Deck START (W) BACKWALL AT 25 DEGREES F. 18' OF START DECK

Deck RISER BAR IS MISSING IN LANE 2 & 3 WB. PART OF RISER

eck IN #2 LANE WB BANGS WITH LIVE LOAD.

Superstructure BEAMS: THERE IS BUILT UP WELD MATERIAL TO THE BOTTOM OF THE

Superstructure LOWER FLANGES OF BEAMS 3 THRU 12, ALL ARE 12' TO 13'

Superstructure FROM THE FINISH ABUT.

Superstructure XFRAMES: ENDFRAME RUSTED SECTION LOSS.

Superstructure BEARINGS: MOST ROCKERS AT START ABUTMENT ARE SLIGHTLY TIPPED

Superstructure IN AT 25 DEGREES F.

Superstructure PCS: 2% RUST. SOME PEELING AT BEAM ENDS. 1-5% DETERIORATED.

Substructure ABUTMENTS: CRACKS.

Substructure PIERS: CAP SPALLS AND DELAMINATIONS MOSTLY UNDER MEDIAN

JOINT.

Substructure BACKWALLS: A FEW SPALLS AND DELAMS.

Approaches PAVEMENT: NEW IN 2008.

Unit of Measure: English Structure File Number 1807900 Sufficiency Rating: 88.0 SD			Bridge Inventory Information Inventory Bridge Number: CUY 00090 1 ON EAST 14TH ST	651 L		Report Date 10/15/2009 BM-191 Page: 1 of 2 BR. Type STEEL / BEAM / CONTINUOUS Date of Last Inventory Update: 12/22/2008
District: 12	Coun	nty CUYAHOGA	(101) Location:	.11 MI. E. OF JCT. I-77		(102) Facility Carried: I-90 WB.
(2)FIPS Code: CLEVELAND			(103) Route On	Bridge: STATE (ODOT)		(104) Route Under Bridge: MUNICIPAL
(9) Direction of Traffic: 1-WAY TRAFFIC	(10)	Temporary: N	(11)Truck Network: Y		(*	12)Parallel: L
(95) Insp: OHIO TRAN DEPT (96) Maint: 0	OHIO TRAN DEPT (9	7) Routine: OHIO TRA	(100) Type Serv	r: (On): HIGHWAY	(U	Under): HIGHWAY, WITH OR WIT
Inventory	Route Data		(63) Main Spans Number: 4	Type: STEEL / BEAM / CO	NTINUOUS	
(3) Route On/Under: ON	Hwy Sys: INTERSTA	ATE HIGHWAY	Approach Spans Number: 0	Type: NONE / NONE / NON	NE .	
Route No.: 00090 Dir:	Des: MAINLINE	Pref:	Total Spans: 4	(65) Max Span: 99 Ft	((66) Overall Leng: 307 Ft
(4) Feature Intersected: EAST 14TH ST			(70) Substructure	(71) Foundation and Scour	Information	
(5) County: CUY Mileage: 1651	Special Desig: L		Abut-Rear Matl: CONCRETE	Type: STUB GRAVITY	ı	Fnd: CIP REINF CONCRETE PILES(OTHER DIAMETER)
(6) Avg. Daily Traffic(ADT): 49,860	(7) ADT Year: 2007		Abut-Fwd Matl: CONCRETE	Type: STUB GRAVITY	i	Fnd: CIP REINF CONCRETE PILES(OTHER DIAMETER)
(8) Truck Traf: 4,215 (14) NHS: YES - N				Type: CAPPED COLUMN	I	Fnd: CIP REINF CONCRETE PILES(OTHER DIAMETER)
(16) Functional Class: INTERSTATE-URBAN		(19) Strahnt: Interstate	Pier-Other Matl: NONE	Type: NONE	I	Fnd: OTHER
	d Route Data			Type: NONE	ſ	Fnd: OTHER
(22) Route On/Under: UNDER	Hwy Sys: MUNICIPA		No of Piers Predominate: 03	Other: NN	(Other: NN
Route No.: E14TH Dir:	Des: 1	Pref:	r ,	(74) Scour: BRIDGE NOT (
(23) Feature Intersected: IR 90			j, , ,	Probe: N Freq: 0		(75) Chan Prot: N/A
(24) County: CUY Mileage: 2036	Special Desig:		(189) Date of last Dive Insp:	(152) Drainage Area: NNNN		
(25) Avg. Daily Traffic(ADT): 1,000	(26) ADT Year: 1973	3			nder the Bridge	
` '	(29) Corridor: N	0	I' '	NC: 50.0 Ft	(Card: 42.0 Ft
(30) Functional Class: Local Road-URBAN		Strahnt: Not Applicable	(101) I Tao Max VII Ondor Gloar.	18.8 Ft		
	On the Bridge	Candy 47 0 Ft	T` '	NC: 15.0 Ft		Card: 18.8 Ft
(154) Min Hriz on Bridge:	NC: 0.0 Ft	Card: 47.8 Ft	, ,	NC: 18.0 / 10.0 Ft	(Card: 17.0 / 10.0 Ft
(155) Prac Max Vert On Brg: (67) Min Vrt Clr On Brg:	9999.9 Ft NC: 0.0 Ft	Card: 9999.9 Ft	Load Rating Informa			(88-89) Appraisal
(80) Min Latl Clr:	NC: 3.7 / 8.5 Ft	Card: 9999.9 Ft	(48) Design Load: HS/20-44 & ALTERNATE	MILITARY LOADING	(Including calcu	lated Items)
(81) Vrt Clr Lft:	0.0 Ft	Card. 0.0 / 0.0 Ft	(83) Operating: 45 Ton			
· /	Information		Inventory: 36 Ton		(00) 144 /	
(38) Bypass Length: 01 Miles	mormation		Ohio Percent of Legal Load 150		(88) Waterway	
(39) Latitude: 41 Deg 29.8 Min	Longitude: 81 Deg 4	0.7 Min	Year of Rating: 1986		(89) Approach A	=
(40) Toll: ON FREE ROAD	Longitudo. Cr Dog 1		(84) Analysis: WORKING STRESS (WS)		Calc Gen Appra	
(41) Date Built: 07/01/1963	(42) Major Rehabilita	ation:	(85) Rate Soft: BARS Analyzed by:	ic	Calc Deck Geor Calc Underclean	•
(43) No. Lanes On: 3	No. Lanes Under: 6		Analysis on Bars: WRKG STRESS ANALYS		Information	rance. 6
(44) Horiz Curve: 01 Deg. 30 Min.	(45) Skew: 99 Deg		(109) Approach Guardrail: STEEL BEAM	Арргоасп	mormation	
(49) App. Rdw Width: 48 Ft	(50) Brg. Rdw Width	: 47.8 Ft	(110) Approach Pavement: BITUMINOUS		(111) Grade: F	AIR
(51) Deck Width: 52.2 Ft	Deck Area: 16017 S	q. Ft	(110) Approach Lavement. Bil Chillege		nformation	AII.
(52) Median Type: NONE / NON BARRIE	NO JOINT		(131) Culvert Type: NONE/NOT APPLICBLE		(127) Length: 0 .	0 E+
(53) Bridge Median: NO MEDIAN			(129) Depth of Fill: 0.0 Ft	-	(130) Headwalls	
(54) Sidewalks:	(left) 0 Ft	(right) 0 Ft	(120) Dopar or r III. 0.0 T t	General I	nformation	S. NONE
(55) Type Curb or Sidewalks:			(121) Main Member WELDED BUILT-UP ST		mormation	(122) Moment Plate: RIVETED OR BOLTED
(Left) Matl: CONCRETE	Type: SAFETY CUR	RB(<=2')	(169) Expansion Joint: SLIDING METAL PLA			(122) Women't late. KIVETED OK BOLTED
(Right) Matl: CONCRETE	Type: SAFETY CUR	•	(124) Bearing Devices: ROCKERS/NONE	ATE ANOLL		
(56) Flared: Y	(57) Composite: non	n-composite	(126) Navigation: Control- X	Vert Clr: 0.0 Ft		Horiz Clear:: 0.0 Ft
(58) Railing: REINFORCED CONCRETE 8			(193) Spec Insp: N	Freq: 0		Date:
(59) Deck Drainage: INLETS W/DRN PIPE			(188) Fracture Critical Insp: N	Freq: 0		Date:
(60) Deck Type: REINF CONCRT (PREST	RSD, PRECAST		(138) Long Member: NOT APPLICABLE	'		(135) Hinges: NOT APPLICABLE
(61) Deck Protection: External: OTHER			(141) Structural Steel Memb: UNKNOWN			(139) Framing:
Internal: NONE	VIELED OCCUPATION	OVEDLAY				Railing: UNKNOWN
(62) Wearing Surface: MICROSILICA MOI			Pay Wt: 0 pounds	Prime Loc: UNKNOWN		Paint: PAINT SYSTEM OZEU
	ng Surface: 11/15/20 0	UU	Bridge Dedicated Name:			
Slope Protection: CONCRETE (CAST-IN-I	-LACE)					

Unit of Measure: English
Structure File Number 1807900
Sufficiency Rating: 88.0 SD
ON I

Bridge Inventory Information
Inventory Bridge Number: CUY 00090 1651 L
ON FAST 14TH ST

Report Date 10/15/2009 BM-191 Page: 2 of 2 BR. Type STEEL/BEAM/CONTINUOUS Date of Last Inventory Update: 12/22/2008

General Information (Continued) Original Plans Information (---) Hist Significance: NOT HISTORIC (69) NBIS: Y (142) Fabricator: (---) Hist Builder: NONE N/A Hist Build Year: 143) Contractor: (69) Hist Type: NONE N/A (144) Ohio Original Construction Project No.: 006860 (161) Special Features (see below): ---) Microfilm Reel: CUY021 (105) Border Bridge State: Resp % (106) SFN: (151) Standard Drawing: Proposed Improvements **Programming Info** Aperture Cards: Orig: N Repair: Y Fabr: Y (90) Type Work: -PID Number: **24169** Plan Information Available: 1PLAN INFORMATION AVAILABLE PID Status: IA-OTHER (153) Repair Projects (90) Length: Ft PID Date: **04/03/2003** 1. / 020 2. 860277 / 020 3. 920725 / 041 (90) Bridge Cost (\$1000s): 0 5. / 040 6. / 004 (90) Roadway Cost (\$1000s): 0 7. **/ 040** 8. / **059** 9. (90) Total Project Cost (\$1000s): 0 (90) Year: 10. (91) Future ADT (On Bridge): 0 (92) Year of Future ADT: 2027 Inspection Summary (I-69) Survey Items Utilities **Special Features** 4 1 MEETS CURRENT STANDARDS (I-8) Deck: Railings: (46) Electric: U (161) Lighting: (I-32) Superstructure: 7 Transitions: 1 MEETS CURRENT STANDARDS U Ν Gas: Fencina: (I-42) Substructure: 6 Guardrail: 1 MEETS CURRENT STANDARDS Sanitary Sewer: U Ν Glare-Screen: (I-50) Culvert: Rail Ends: 1 MEETS CURRENT STANDARDS Telephone: U Splash-Guard: Ν (I-54) Channel: Pavement Mark: 1 MEETS CURRENT STANDARDS TV Cable: U Catwalks: Ν 7 (I-60) Approaches: Restrict Sign: N NONE N/A Water: U Other-Feat: U (I-66) General Appraisial: 6 N NONE N/A Warning Sign: U Ν Other: (184) Signs-on: (I-66) Operational Status: A End Markers: N NONE N/A Signs-Under: Ν Inspection Date: 07/21/2008 Insp. Update Date: 01/28/2009 162) Fence-Ht: 0.0 Ft (94) Desig Insp Freq: 12 Months 163) Noise Barr: Ν SFNs Replacing this retired bridge: SFNs That where replaced by this bridge: This bridge was retired and copied to: The bridge was copied from: INV Field Bridge Marker: CUY-00090-1651 -L INT Field Bridge Marker: CUY-E14TH-2036 -

Elem No.	CoRe Element Description	Total Quantity	Unit Meas.	Condition State Percents(*)				
				1	2	3	4	5
22	CONCRETE DECK PROTECTED W/RIGID OVERLAY	1	EA	0	0	0	0	0
321	REINFORCED CONCRETE APPROACH SLAB	2	EA	0	0	0	0	0
333	MISCELLANEOUS - BRIDGE RAILING	612	LF	0	0	0	0	0
(*) Percentages Should add to 100%								

1 8 0 7 9 0 0

Bridge Number CUY 00090 1651 ROUTE UNIT

L CLEVELAND

Date Built 07/01/1963

District 12 Bridge Type STEEL/BEAM/CONTINUOUS Type Service 1 **11 EAST 14TH ST** CUY DECK Out/Out 52.2 THCK = 2.2 3 C-MICROSILICA MODIFIED C W.S. Date = 11/15/2000 1-REINF CONCRT (PRESTRSD 1. Floor 2. Wearing Surface 2 1-CONCRETE 3. Curbs, Sidewalks, Walkways 4. Median 2 2-REINFORCED CONCRETE & 10 5. Railing 6. Drainage 4-INLETS W/DRN PIPES 7. Expansion Joints 2-SLIDING METAL PLATE AN 11 8. Summary SUPERSTRUCTURE MAX.SPAN=99 9. Alignment 10. Beams/Girders/Slab 3-WELDED BUILT-UP STEEL TOT.LGTH=307 11. Diaphragms or Crossframes 12. Joists/Stringers 13. Floor Beams 14. Floor Beam Connections 15. Verticals 16. Diagonals 17. End Posts 18. Top Chord 19. Lower Chord 20. Lower Lateral Bracing 21. Top Lateral Bracing 22. Sway Bracing 2-ROCKERS 23. Portals 24. Bearing Devices N-NONE 25. Arch 26. Arch Columns or Hangers TYPE = 5-PAINT SYSTEM OZEU 28. Protective Coating System DATE = 01/01/198627. Spandrel Walls 29. Pins/Hangers/Hinges 30. Fatigue Prone Connections 31. Live Load Response 32. Summary SUBSTRUCTURE 2-CONCRETE PIERS=3 SPANS = 4 1 33. Abutments 2-CONCRETE 24 34. Abutment Seats 35. Piers TYPE = 2-CONCRETE 25 36. Pier Seats ABUTMENT:=CIP REI / CIP REI 2 37. Backwalls 38. Wingwalls N-BRIDGE NOT OVER WATERW 6 40. Scour 39. Fenders and Dolphins 41. Slope Protection 1-CONCRETE (CAST) 28 42. Summary DIVE DT=N/A **CULVERTS** 43. General 44. Alignment 45. Shape 46. Seams 47. Headwalls or Endwalls 48. Scour 50. Summary **CHANNEL** 51. Alignment 52. Protection 53. Waterway Adequacy 54. Summary **APPROACHES** 55. Pavement 2-BITUMINOUS 35 56. Approach Slabs 57. Guardrail 1-STEEL BEAM 36 58. Relief Joints BRDG.WIDTH=47.8 37 59. Embankment 60. Summary PCT.LEGAL=150 ROUTINE.RESP: 1-OHIO TRAN DEPT **GENERAL** MAINT.RESP: 1-OHIO TRAN DEPT 61. Navigation Lights 62. Warning Signs MVC ON=9999 UND=15.0 63. Sign Supports 65. Vertical Clearance 66. General Appraisal & Operational Status 67. INSPECTED BY 68. REVIEWED BY **DOT 2852 DECK AREA 16,017**

BR-86 REV 02-95

1 8 0 7 9 0 0

1 Structure File Number 7

Deck

Deck

Deck

Deck

Deck Deck Bridge Number CUY 00090 1651 L

Date Built 07/01/1963

District 12 Bridge Type STEEL/BEAM/CONTINUOUS

Type Service 1 1 1

EAST 14TH ST

Deck FLOOR: THE FLOOR IS TIMBER-SUBDECKED OVER TRAFFIC EXCEPT FOR

PART OF BAY #1 OVER PART OF LANE #2 OF THE RAMP IN SPAN #3 AND PART OF THE CONTIGUOUS SIDEWALK: SEE

Deck ATTACHED PHOTOS #2 AND #3 DATED 7/21/08.

CRACKS. AT LEAST 30-40% MOTTLED. AT LEAST 150 SF OF SPALLS. DECK IS 4 INCHES THICK AT OPEN JOINT BETWEEN THIS BRIDGE AND I-77 SB RAMP BRIDGE (TRAFFIC RUNS OVER JOINT) DUE TO SPALLING; SEE ATTACHED PHOTOS

DATED 5/02/06 AND 5/23/07. FLOOR IS 25-40% DET.

Deck WS: CRACKS. 250 SF OF CONCRETE PATCHES IN LANE #3.

Deck 2 SF ASPHALT PATCH IN LANE #3. WS IS 5-10% DET.

Deck CURBS: SPALLS.

Deck BRAILS: CRACKS. RUST STAINS. SPALLS.

Deck COLLISION DAMAGE TO STEEL PANELS IN SPAN #3.

Deck DRAINAGE: DEBRIS IN BERMS. PARTIALLY PLUGGED SCUPPERS.

Deck EXJTS: DIRT AS THICK AS 5 INCHES ON START ABUTMENT SEAT.

Deck 2 EACH 2 INCH DIAMETER RUSTING THRU HOLES IN RIGHT

Deck CURB COVER PLATE OF FINISH EXJT.

Deck TOPS OF MOST GIRDERS ARE INTO FINISH BACKWALL AT

Deck 80 DEGREES F. 8 LF OF FINISH BACKWALL RISER BAR

Deck ARE MISSING IN LANES #1 AND #2; SEE ATTACHED PHOTO

Deck DATED 5/23/07.

Superstructure GIRDERS: FRETTING AT TOPS OF SOME CROSSFRAME STIFFENERS.

Superstructure CROSSFRAMES: RUSTING SECTION LOSS OF ENDFRAMES.

Superstructure 3 SQUARE INCH RUSTING THRU HOLE IN FINISH

Superstructure ABUTMENT ENDFRAME #3.

Superstructure BEARINGS: SOME ABUTMENT ROCKERS ARE PARTIALLY ENGULFED IN

Superstructure DEBRIS.

Superstructure PAINT: 1% RUST. PAINT IS 1-5% DET.

Substructure PIERS: CAP DELAMINATIONS. BOTH ENDS OF PIER #1 CAP ARE

Substructure SPALLED UNDER OPEN LONGITUDINAL JOINTS.

Substructure BACKWALLS: SOME DELAMINATIONS. SPALLED AREAS.

Substructure WINGWALLS: CRACKS.

Unit of Measure: English Structure File Number 1807803 Sufficiency Rating: 69.7 SD	Bridge Inventory Information Inventory Bridge Number:CUY 00090 1651 R ON EAST 14 TH ST				Report Date 10/15/2009 BM-191 Page: 1 of 2 BR. Type STEEL / BEAM / CONTINUOUS Date of Last Inventory Update: 12/22/2008			
District: 12	County CUYAHOGA (101) Location: .11 MI. E. OF JCT. I-77					(102) Facility Carried: I-90 EB.		
(2)FIPS Code: CLEVELAND			(103) Route On Bridge: STATE (ODOT)			(104) Route Under Bridge: MUNICIPAL		
(9) Direction of Traffic: 1-WAY TRAFFIC	(10)	Temporary: N				12)Parallel: R		
(95) Insp: OHIO TRAN DEPT (96) Maint: 0	OHIO TRAN DEPT (9	7) Routine: OHIO TRA	(100) Type Serv	r: (On): HIGHWAY	(l	Under): HIGHWAY, WITH OR WIT		
Inventory	Route Data		(63) Main Spans Number: 4	Type: STEEL / BEAM / CO	NTINUOUS			
(3) Route On/Under: ON	Hwy Sys: INTERSTA	ATE HIGHWAY	Approach Spans Number: 0	Type: NONE / NONE / NON	IE			
Route No.: 00090 Dir:	Des: MAINLINE	Pref:	Total Spans: 4	(65) Max Span: 99 Ft	((66) Overall Leng: 307 Ft		
(4) Feature Intersected: EAST 14 TH ST			(70) Substructure	(71) Foundation and Scour	Information			
(5) County: CUY Mileage: 1651	Special Desig: R		Abut-Rear Matl: CONCRETE	Type: STUB GRAVITY		Fnd: CIP REINF CONCRETE PILES(OTHER DIAMETER)		
(6) Avg. Daily Traffic(ADT): 49,860	(7) ADT Year: 2007		Abut-Fwd Matl: CONCRETE	Type: STUB GRAVITY	F	Fnd: CIP REINF CONCRETE PILES(OTHER DIAMETER)		
(8) Truck Traf: 4,215 (14) NHS: YES - N		(10) O. I.		Type: CAPPED COLUMN		Fnd: CIP REINF CONCRETE PILES(OTHER DIAMETER)		
(16) Functional Class: INTERSTATE-URBAN		(19) Strahnt: Interstate	4	Type: NONE		Fnd: OTHER		
	d Route Data	U OTREET		Type: NONE		Fnd: OTHER		
(22) Route On/Under: UNDER	Hwy Sys: MUNICIPA			Other: NN		Other: NN		
Route No.: 00014 Dir:	Des: 1	Pref:	r ,	(74) Scour: BRIDGE NOT (
(23) Feature Intersected: I-90	Canadal Danim C		j, , ,	Probe: N Freq: 0	,	(75) Chan Prot: N/A		
(24) County: CUY Mileage: 2037	Special Desig: S (26) ADT Year: 1973	•	(189) Date of last Dive Insp:	(152) Drainage Area: NNN				
(25) Avg. Daily Traffic(ADT): 1,000	` ')			nder the Bridge			
(27) Truck Traf: 0 (28) NHS: NO - X (30) Functional Class: Local Road-URBAN	(29) Corridor: N	Strabat: Not Applicable	I' '	NC: 50.0 Ft	(Card: 42.0 Ft		
	On the Bridge	Strahnt: Not Applicable	(101) I Tao Max VII Ondor Oloar.	18.8 Ft				
(154) Min Hriz on Bridge:	NC: 0.0 Ft	Card: 47.8 Ft	T ` '	NC: 15.0 Ft		Card: 18.8 Ft		
(155) Prac Max Vert On Brg:	9999.9 Ft	Oara. 47.011	, ,	NC: 19.0 / 10.0 Ft	(Card: 17.0 / 10.0 Ft		
(67) Min Vrt Clr On Brg:	NC: 0.0 Ft	Card: 9999.9 Ft	Load Rating Informa		/Including colour	(88-89) Appraisal		
(80) Min Latl Clr:	NC: 0.0 / 0.0 Ft	Card: 3.7 / 8.5 Ft	(48) Design Load: HS/20-44 & ALTERNATE	WILITARY LOADING	(Including calcul	lated items)		
(81) Vrt Clr Lft:	0.0 Ft		(83) Operating: 45 Ton Inventory: 36 Ton					
	Information		Ohio Percent of Legal Load 150		(88) Waterway A	Adequacy N		
(38) Bypass Length: 01 Miles			Year of Rating: 1986		(89) Approach A			
(39) Latitude: 41 Deg 29.8 Min	Longitude: 81 Deg 4	0.7 Min	(84) Analysis: WORKING STRESS (WS)		Calc Gen Appra	=		
(40) Toll: ON FREE ROAD			(85) Rate Soft: BARS Analyzed by:		Calc Deck Geor			
(41) Date Built: 07/01/1963	(42) Major Rehabilita	ation:	Analysis on Bars: WRKG STRESS ANALYS	IS	Calc Underclear	· · · · · · · · · · · · · · · · · · ·		
(43) No. Lanes On: 4	No. Lanes Under: 6		,		Information			
(44) Horiz Curve: 01 Deg. 30 Min.	(45) Skew: 99 Deg		(109) Approach Guardrail: STEEL BEAM					
(49) App. Rdw Width: 48 Ft	(50) Brg. Rdw Width		(110) Approach Pavement: BITUMINOUS		(111) Grade: FA	e: FAIR		
(51) Deck Width: 52.2 Ft	Deck Area: 16017 Se	q. Ft			nformation			
(52) Median Type: NONE / NON BARRIE	NO JOINT		(131) Culvert Type: NONE/NOT APPLICBLE (127) Length: 0.0 Ft			.0 Ft		
(53) Bridge Median: NO MEDIAN	(1 t) 5 T	(1.1.) 5 =:	(129) Depth of Fill: 0.0 Ft		(130) Headwalls			
(54) Sidewalks:	(left) 0 Ft	(right) 0 Ft		General I	nformation			
(55) Type Curb or Sidewalks:	Torres CAFETY CUD	ID(- 01)	(121) Main Member WELDED BUILT-UP ST	EEL		(122) Moment Plate: RIVETED OR BOLTED		
(Left) Matl: CONCRETE	Type: SAFETY CUR	` '	(169) Expansion Joint: SLIDING METAL PLA	ATE ANGLE				
(Right) Matl: CONCRETE (56) Flared: Y	Type: SAFETY CUR (57) Composite: non	• •	(124) Bearing Devices: ROCKERS/NONE					
	` '	•	(126) Navigation: Control- X Vert Clr: 0.0 Ft			Horiz Clear:: 0.0 Ft		
(58) Railing: REINF CONCR SAFETY CURB&PRPT W.ALUM RAIL (59) Deck Drainage: INLETS W/DRN PIPES			(193) Spec Insp: N	Freq: 0		Date:		
(60) Deck Type: REINF CONCRT (PRESTRSD, PRECAST			(188) Fracture Critical Insp: N	Freq: 0		Date:		
(61) Deck Protection: External: OTHER			(138) Long Member: NOT APPLICABLE			(135) Hinges: NOT APPLICABLE		
Internal: NONE			(141) Structural Steel Memb: UNKNOWN			(139) Framing:		
(62) Wearing Surface: MICROSILICA MODIFIED CONCRETE OVERLAY				a		Railing: UNKNOWN		
, ,	ng Surface: 11/15/20 0		Pay Wt: 0 pounds	Prime Loc: UNKNOWN		Paint: PAINT SYSTEM OZEU		
Slope Protection: CONCRETE (CAST-IN-I	-		Bridge Dedicated Name:					
, , , , , , , , , , , , , , , , , , , ,	•							

Unit of Measure: English Structure File Number 1807803 Sufficiency Rating: 69.7 SD

Bridge Inventory Information Report Date 10/15/2009 BM-191 Page: 2 of 2 BR. Type STEEL/BEAM/CONTINUOUS Inventory Bridge Number: CUY 00090 1651 R ON EAST 14 TH ST Date of Last Inventory Update: 12/22/2008

General Information (Continued)				Original Plans Information						
() Hist Significance: NO	T HISTORIC			(69) NBIS: Y	(142) Fabricator: AMER. B	RIDGE				
() Hist Builder: NONE N	/A	Hist E	Build Year:		(143) Contractor: HORVITZ	z co.				
(69) Hist Type: NONE N/A	A				(144) Ohio Original Constru	uction Project N	lo.: 006860			
(161) Special Features (s	ee below):				() Microfilm Reel: CUY02	21				
(105) Border Bridge State	: Resp % (106	S) SFN:			(151) Standard Drawing:					
	Proposed	Improvements		Programming Info	Aperture Cards: Orig: Y Re	pair: Y Fabr: Y				
(90) Type Work: -				PID Number: 24169	Plan Information Available:			LE		
				PID Status: IA-OTHER			(153) Repai			
(90) Length: Ft				PID Date: 04/03/2003	1. / 020	2	2. 770447 / 044		. 860277 / 020	
(90) Bridge Cost (\$1000s)	: 0				4. 920725 / 041	5	5. /	6.	. / 004	
(90) Roadway Cost (\$100	0s): 0				7. / 040	8	3. / 059	9.		
(90) Total Project Cost (\$	1000s): 0	(90) \	/ear:		10.					
(91) Future ADT (On Brid		(92) \	ear of Future ADT: 20	027						
Inspection Sum	mary		(I-69) Survey Ite	ms		Utilities		(Special Features	
(I-8) Deck:	4	Railings:	1 MEETS CURREN	IT STANDARDS	(46) Electric:	U	(1	161) Lighting:	Y	
(I-32) Superstructure:	7	Transitions:	1 MEETS CURREN	IT STANDARDS	Gas:	U		Fencing:	N	
(I-42) Substructure:	6	Guardrail:	1 MEETS CURREN	IT STANDARDS	Sanitary Sewer:	U		Glare-Screen:	N	
(I-50) Culvert:		Rail Ends:	1 MEETS CURREN	IT STANDARDS	Telephone:	U		Splash-Guard:	N	
(I-54) Channel:		Pavement Mark:	1 MEETS CURREN	IT STANDARDS	TV Cable:	U		Catwalks:	N	
(I-60) Approaches:	6	Restrict Sign:	N NONE N/A		Water:	U		Other-Feat:	U	
(I-66) General Appraisial:	6	Warning Sign:	N NONE N/A		Other:	U	(*	184) Signs-on:	N	
(I-66) Operational Status:	Α	End Markers:	N NONE N/A				ĺ	Signs-Under:	N	
Inspection Date:	07/21/2008	Insp. Update Date:	01/28/2009				(*	162) Fence-Ht:	0.0 Ft	
(94) Desig Insp Freq:	12 Months						(°	163) Noise Barr:	N	
							ſ			
		I.			1					
SFNs Replacing this retire	ed bridge:		-							
SFNs That where replaced by this bridge:										
This bridge was retired ar										
The bridge was copied from	•				INV Field Bridge Marker:		_	CUY-00090-1651 -R		
					INT Field Bridge Marker:			CUY-00090-1031 -R		
					in i i leiu bliuge market.			501-00014-2037 - 3		

Elem No.	CoRe Element Description	Total Quantity	Unit Meas.	Condition State Percents(*)				
				1	2	3	4	5
22	CONCRETE DECK PROTECTED W/RIGID OVERLAY	1	EA	0	0	0	0	0
321	REINFORCED CONCRETE APPROACH SLAB	2	EA	0	0	0	0	0
333	MISCELLANEOUS - BRIDGE RAILING	612		0	0	0	•	_
(*) Percentages Should add to 100%								

Type Service

1 8 0 7 8 0 3

District 12 Bridge Type STEEL/BEAM/CONTINUOUS

Bridge Number CUY 00090 1651 ROUTE UNIT

R CLEVELAND

11 EAST 14 TH ST

1

Date Built 07/01/1963

CUY

DECK Out/Out 52.2 THCK = 2.2 3 C-MICROSILICA MODIFIED C W.S. Date = 11/15/2000 1-REINF CONCRT (PRESTRSD 1. Floor 2. Wearing Surface 3 1-CONCRETE 3. Curbs, Sidewalks, Walkways 4. Median 3 3-REINF CONCR SAFETY CUR 10 5. Railing 6. Drainage 4-INLETS W/DRN PIPES 7. Expansion Joints 2-SLIDING METAL PLATE AN 11 8. Summary SUPERSTRUCTURE MAX.SPAN=99 1 9. Alignment 10. Beams/Girders/Slab 3-WELDED BUILT-UP STEEL TOT.LGTH=307 11. Diaphragms or Crossframes 12. Joists/Stringers 13. Floor Beams 14. Floor Beam Connections 15. Verticals 16. Diagonals 17. End Posts 18. Top Chord 19. Lower Chord 20. Lower Lateral Bracing 21. Top Lateral Bracing 22. Sway Bracing 2-ROCKERS 23. Portals 24. Bearing Devices N-NONE 25. Arch 26. Arch Columns or Hangers TYPE = 5-PAINT SYSTEM OZEU 28. Protective Coating System DATE = 01/01/198627. Spandrel Walls 29. Pins/Hangers/Hinges 30. Fatigue Prone Connections 31. Live Load Response 32. Summary SUBSTRUCTURE 2-CONCRETE PIERS=3 SPANS = 4 1 33. Abutments 2-CONCRETE 24 34. Abutment Seats 35. Piers TYPE = 2-CONCRETE 25 36. Pier Seats ABUTMENT:=CIP REI / CIP REI 2 37. Backwalls 38. Wingwalls N-BRIDGE NOT OVER WATERW 6 40. Scour 39. Fenders and Dolphins 41. Slope Protection 1-CONCRETE (CAST) 28 42. Summary DIVE DT=N/A **CULVERTS** 43. General 44. Alignment 45. Shape 46. Seams 47. Headwalls or Endwalls 48. Scour 50. Summary **CHANNEL** 51. Alignment 52. Protection 53. Waterway Adequacy 54. Summary **APPROACHES** 55. Pavement 2-BITUMINOUS 35 56. Approach Slabs 57. Guardrail 1-STEEL BEAM 36 58. Relief Joints 6 BRDG.WIDTH=47.8 37 59. Embankment 60. Summary PCT.LEGAL=150 ROUTINE.RESP: 1-OHIO TRAN DEPT **GENERAL** MAINT.RESP: 1-OHIO TRAN DEPT 61. Navigation Lights 62. Warning Signs MVC ON=9999 UND=15.0 63. Sign Supports 65. Vertical Clearance 66. General Appraisal & Operational Status 67. INSPECTED BY 68. REVIEWED BY **DOT 2852 DECK AREA 16,017**

BR-86 REV 02-95

1 8 0 7 8 0 3

Deck

Deck

Deck

Substructure

Bridge Number CUY 00090 1651 F

Date Built 07/01/1963

District 12 Bridge Type STEEL/BEAM/CONTINUOUS

Type Service <u>1</u> <u>1</u> <u>1</u>

EAST 14 TH ST

Deck FLOOR: TIMBER-SUBDECKED OVER TRAFFIC.

LEACHED CRACKS WITH STALACTITES. 30-35% MOTTLED.

Deck 60 SF OF SPALLS. FLOOR IS 25-40% DET.

Deck WS: CRACKS (SOME AS WIDE AS 1/16 INCH). CONCRETE PATCHES.

DELAMINATED AREAS. 60 SF OF ASPHALT PATCHES.

Deck SEE ATTACHED PHOTO #2 DATED 7/21/08. WS IS 5-10% DET.

Deck CURBS: CRACKS. SPALLS. RIGHT CURB IS 10% SPALLED.

Deck BRAILS: RUST STAINS. DELAMINATIONS. SPALLS (SOME DEEP).

Deck 5 LF OF 360 DEGREE REBAR EXPOSURE. SPALLS FORMING

Deck OVER TRAFFIC; SEE ATTACHED WORK ORDER 240 2009 7 AND

ATTACHED PHOTO #3 DATED 7/21/08.

Deck DRAINAGE: TWO PLUGGED SCUPPERS IN RIGHT BERM NEAR PIER #2.

Deck NEARLY HORIZONTAL DRAINAGE PIPES.

EX.ITS: SOME GIRDERS ARE 1/4 INCH FROM START BACKWALL AT Deck Deck 80 DEGREES F. 2 RUSTING THRU HOLES IN MAINLINE RIGHT CURB COVER PLATE OF START EXJT; LARGEST HOLE IS Deck 4 SQUARE INCHES. GOUGES IN BACKWALL ARMOR OF START Deck Deck EXJT IN LANE OF ON RAMP. 18 LF OF START BACKWALL RISER BAR ARE MISSING IN LANES #2 AND #3. 4 LF OF Deck START EX.IT DECK ARMOR ARE LOOSE AND CLANGING IN FB Deck I ANF #3: SEE ATTACHED WORK ORDER 240 2009 9 AND Deck

Deck ATTACHED PHOTOS #4 AND #5 DATED 7/21/08.

Superstructure GIRDERS: FRETTING AT TOPS OF SOME CROSSFRAME STIFFENERS.

Superstructure BENT LOWER FLANGES OF BEAMS 1R AND 2R SIX INCHES
Superstructure FROM BEARINGS; SEE ATTACHED PHOTO #1 DATED 5/02/06.

Superstructure PAINT: 1% RUST. PAINT IS 1-5% DET.

Superstructure BEARINGS: SOME ROCKERS ARE PARTIALLY ENGULFED IN DEBRIS.

Superstructure HEAVY RUSTING.

Substructure ABUTMENTS: DIRT AS THICK AS 15 INCHES ON START ABUTMENT SEAT

OF RAMP. DIRT AS THICK AS 3 INCHES ON FINISH

Substructure ABUTMENT SEAT. A FEW MINOR SPALLS.

Substructure PIERS: RAMP P1C2 HAS 20 SF OF FIRE SPALLS. 2 SF OF
Substructure DELAMINATIONS ON P2C4. CAP DELAMINATIONS AND SPALLS.
Substructure BACKWALLS: SPALLS. DEEP SPALLS OF START BACKWALL IN BAY #1.
Substructure DEEP SPALL OF START BACKWALL IN BAY #3 WITH SMALL

Substructure DEEP SPALL OF START BACKWALL IN BAY #3 WITH SMALL Substructure HOLE THRU TO WS. LARGE SPALLS IN BAYS #2 AND #3

Substructure OF START BACKWALL OF RAMP.

Substructure SLOPE PROTECTION: MINOR UNEVEN SETTLEMENT.

Approaches PAVEMENT: APPROACH PAVEMENT IS UNDER CONSTRUCTION.

Approaches APPROACH SLABS: BOUNCE ONTO BRIDGE (ESPECIALLY FROM MAINLINE

Approaches LANE #3).

Approaches GUARDRAILS: MINOR COLLISION DAMAGE TO FINISH-RIGHT GUARDRAIL

Approaches IN MULTIPLE LOCATIONS.