

STRUCTURAL DATA RECORD**Sufficiency Rating: 92.5****IDENTIFICATION**

Bridge ID: 1758G6149	(2) District: 01	(3) County: 3
Inventory Route:	(B) Highway Type: 3	(4) Place Code: 77540
(A) On/Under: 1	(E) Direction: 0	(C) Service Lvl: 7
(D) Route No: 06149		6B) Critical: *
6A) Features Intersected: SR 4, MARYLAND AVE.		11) Km. Point: 0.020 mi
(7) Facility Carried: MLK BLD TO I 95 S		
(9) Location: WILMINGTON		
16) Latitude: 39^44'27.47"	17) Longitude: 75^33'44.04"	
98) Border Bridge Code: NA	99) Border Br. Str. No.: NA	

STRUCTURE TYPE AND MATERIAL

43A) MAIN SPAN MATERIAL: 3	43B) DESIGN TYPE: 02
44A) APPR. SPAN MATERIAL: NA	44B) DESIGN TYPE: NA
45) Main Spans: 10	46) Approach Spans: 0
107) Deck Type: 1	
108A) Wearing Surface: 1	108B) Membrane: 0
Pier 1: 32	Pier 2: NA
Abut 1: 2	Abut 2: NA
Pier Ftg. 1: NA	Pier Ftg. 2: NA
Abut Ftg. 1: NA	Abut Ftg. 2: NA
	108C) Deck Protection: 1

NAVIGATION DATA

38) Navigational Control: N	39) Vertical Clearance: 0.0 ft	40) Horizontal Clearance: 0.0 ft
111) Pier Protection: !	116) Lift Br. Vert. Clr: 0.0 ft	

AGE AND SERVICE

19) Detour Length: 3 mi	27) Year Built: 1980	
28) No. of Lanes:	A) On Bridge: 1	B) Under Bridge: 2
29) ADT: 6045	30) Year of ADT: 2011	
42) Type of Service:	A) On Bridge: 1	B) Under Bridge: 1
106) Year Reconst.: -4	109) % Truck ADT: 7	

CLASSIFICATION

12) Base Hwy. Network: 0	13A) LRS Inv. Rte: NA	13B) LRS Subroute No.: NA
20) Toll Facility: 3	21) Maintenance: 1	22) Owner: 1
26) Functional Class: 14	37) Historical: 5	100) Defense Highway: 1
101) Parallel Str.: N	102) Direction: 1	103) Temp. Str.: 1
104) NHS: 1	105) Fed. Lands Highway: 0	110) Nat. Truck Network: 1
112) NBIS Length: Y		

LOAD RATING AND POSTING

31) Design Load: 6	41) Oper. Status: A	Rating Date: 11/8/2010
63) Oper. Rating Method: 3	64) Operating Rating: 104.4	
65) Inv. Rating Method: 3	66) Inv. Rating: 80.5	70) Bridge Posting: 5
Reason of Posting: NA	Date of Resolution: NA	Rating Analysis Req'd: NA
S335: 0	S437: 0	T330: 0
T435: 0	T540: 0	

PROPOSED IMPROVEMENTS

75) Type of Work: 31	76) Length of Imp.: 240
94) Bridge Cost: 800000	95) Roadway Cost: 200000
96) Total Cost: 1000000	97) Year of Cost Est.: 2005
114) Future ADT: 7584	115) Year of Future ADT: 2030

CONTRACT INFORMATION

Contract 1: 6403004	Contract 2: 7603021	Contract 3: 7809101
Contract 4: -1	Contract 5: -1	Contract 6: -1

INSPECTION RECORD

90) Inspection Date: 2/1/2012
 92A) FC Frequency: NA
 92B) UW Frequency: NA
 92C) SI Frequency: NA
 Element Frequency: 24 months
 UBIV Required: N
 Boat: N

91) Frequency: 24 months
 93A) FC Insp. Date: NA
 93B) UW Insp. Date: NA
 93C) SI Date: NA
 Elem. Insp. Date: 2/1/2012
 UBIV Days: NA
 Tidal: N

Next Inspection: 2/1/2014
 Next FC Insp.: NA
 Next UW Insp.: NA
 Next SI: NA
 Next Elem Insp.: 2/1/2014
 Inspection Zone: 99
 GPS: Y

CONDITION

58) Deck: 7
 61) Channel: N
 62) Culvert: N

59) Superstructure: 6
 Paint Condition: 8
 Paint Priority: 94.27

60) Substructure: 7

APPRAISAL

36) Traffic Sfty Feat.:
 A) Bridge Rail: 1
 D) Approach Rail Ends: 1
 67) Structure Evaluation: 6
 71) Waterway Adequacy: N
 113) Scour Critical Evaluation: N

B) Transition: 1
 68) Deck Geometry: 6
 72) Approach Rdwy Alignment: 8

C) Approach Rail: 1
 69) Underclearance: 2
 Scour Analysis Date: NA

GEOMETRIC DATA

32) Appr. Rdwy Width (w/ Shldrs): 23.00 ft
 34) Skew: 0^ 0' 0"
 48) Length Maximum Span: 137.47 ft
 50) Curb or Sidewalk:
 51) Width Curb to Curb: 23.00 ft
 53) Minimum Vertical Clearance Over Bridge Roadway: 99.9 ft
 54) Vertical Underclearance:
 55) Lateral Underclearance:
 56) Lateral Underclearance - Minimum Left: 0.00 ft

35) Structure Flared: 1
 49) Structure Length: 787.40 ft
 A) Left: 0.00 ft
 52) Deck Width o/o: 25.70 ft

33) Median: 0
 B) Right: 0.00 ft
 B) Minimum: 22.25 ft
 B) Minimum: 2.00 ft

PAST INSPECTION

Inspection Date: 2/1/2012

Type: 1

Inspector: Pontis

INSPECTION NOTES

INSPECTED BY: AECOM: D. Raffensperger (TL)/D. Helmstetter
 Maintenance Items: 11100.2 - Clean/Flush Scuppers/Downspout (2 EA) 11100.5 - Spot Paint Superstructure (1 EA) 11100.7 - Reseal Deck Joints (Liquid Only) (23 LF) 11100.8 - Repair/Reseal Deck Joints (115 LF) 11100.9 - Compression Seal Deck Joint (Repair) (138 LF) 11101.2 - Bridge/Parapet Railing (Repair) (15 LF) 11104.3 - Abutment Wingwalls - Repair (1 CY) 11102.5 - Repair Concrete Deck (3 SY) Repair Concrete Pier Caps and Columns. Repair spalls and reseal cracks in N. approach roadway. Repair spalls in N. approach parapets. Replace bituminous relief joint in N. approach.

BRIDGE NOTES

NBI DONE BY: DMJM & JASON BAUERNOTE: SCALE FACTORS ENTERED BY GRD ON 06/06/07, DO NOT CHANGE OR ERASE....

PONTIS DATA

Elements	ID	ENV	UNITS	TOTAL	CS1	CS2	CS3	CS4	CS5	Comments
Concrete Deck - Protected w/ Coated Bars	26	4	(SF)	20010	0	20010	0	0	0	For Notes See MSPE Report
Drains/Downspouts/Scuppers	65	4	(EA)	3	1	1	1	0	0	For Notes See MSPE Report
Painted Steel Open Girder/Beam	107	3	(LF)	3087	2427	584	76	0	0	For Notes See MSPE Report
Reinforced Concrete Pier Wall	210	2	(LF)	68	58	2	8	0	0	For Notes See MSPE Report
Reinforced Concrete Abutment	215	2	(LF)	26	16	0	10	0	0	For Notes See MSPE Report
Reinforced Concrete Pier Cap	234	2	(LF)	230	217	2	11	0	0	For Notes See MSPE Report
Strip Seal Expansion Joint	300	4	(LF)	115	0	115	0	0	0	For Notes See MSPE Report
Pourable Joint Seal	301	4	(LF)	23	0	23	0	0	0	For Notes See MSPE Report
Compression Joint Seal	302	4	(LF)	138	0	115	23	0	0	For Notes See MSPE Report
Elastomeric Bearing	310	4	(EA)	24	20	4	0	0	0	For Notes See MSPE Report
Moveable Bearing (roller, sliding, etc.)	311	4	(EA)	16	16	0	0	0	0	For Notes See MSPE Report
Fixed Bearing	313	4	(EA)	40	40	0	0	0	0	For Notes See MSPE Report
Reinforced Conc Approach Slab w/ or w/o AC Ovly	321	4	(EA)	1	0	1	0	0	0	For Notes See MSPE Report
Bridge Railing - Reinforced Concrete	331	4	(LF)	1565	1227	5	333	0	0	For Notes See MSPE Report
Soffit (or Under Surface) of Concrete Deck or Slab	359	1	(EA)	1	1	0	0	0	0	For Notes See MSPE Report
Traffic Impact	362	1	(EA)	1	0	1	0	0	0	For Notes See MSPE Report
Painted Steel Diaphragm	381	3	(EA)	129	76	46	7	0	0	For Notes See MSPE Report
Reinforced Concrete Wingwalls	390	2	(LF)	180	180	0	0	0	0	For Notes See MSPE Report

Total Elements: 18

DELAWARE DEPARTMENT OF TRANSPORTATION

Bridge Management Section MultiSpan PONTIS Element Report for Span No. 1

Bridge ID: 1758G6149
Description: South Span

Inspection Date: 2/1/2012

ELEM	ENV	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4	CS5	COMMENTS
26	4	Conc Deck/Coatd Bars	(SF)	20010	0	20010	0	0	0	CS2: (20010 SF) Span 5 w/ open spall w/ assoc delam (18" diam) and partial bitum patch at the S. end and open/incip skallow spall (8" diam) at 1/4 span.
65	4	Drainage	(EA)	0	0	0	0	0	0	0
300	4	Strip Seal Exp Joint	(LF)	46	0	46	0	0	0	CS2: (46 LF) Bitum. patched spall adjacent to the joint (29"w x 9"l), shallow spall (16"w x 3"l) adj to the joint in Span 1, debonded sealer, evidence of leakage and debris thruout.
301	4	Pourable Joint Seal	(LF)	0	0	0	0	0	0	0
302	4	Compressn Joint Seal	(LF)	0	0	0	0	0	0	0
321	4	R/Conc Approach Slab	(EA)	0	0	0	0	0	0	0
107	3	Paint Stl Opn Girder	(LF)	282	200	81	1	0	0	CS2: (81 LF) Light corrosion to all four beam ends at the piers, light freckled rust along the ext face of web of fascia beams and large area of peeling paint with exposed primer in u/side of BM 1 @ Pier 0. CS3: (1 LF) Blistering paint w/ rusted base metal @ the N. end of BM 4 @ Pier 1 along the top fl and stiff.
331	4	Conc Bridge Railing	(LF)	147	136	1	10	0	0	CS2: (1 LF) W. barrier w/ incip spall (7"l x 3"h). CS3: (10 LF) HL horiz. and vert cracks w/ light rust & spall w/ exp steel in W. barrier.
381	3	Painted Steel Diaphr	(EA)	12	12	0	0	0	0	NDN
310	4	Elastomeric Bearing	(EA)	0	0	0	0	0	0	0
311	4	Moveable Bearing	(EA)	4	4	0	0	0	0	CS1: (4 EA) Plate bearings are heavily greased.
313	4	Fixed Bearing	(EA)	4	4	0	0	0	0	CS1: (4 EA) Fixed bearings are heavily greased.
210	2	R/Conc Pier Wall	(LF)	8	8	0	0	0	0	NDN
215	2	R/Conc Abutment	(LF)	0	0	0	0	0	0	0
234	2	R/Conc Pier Cap	(LF)	26	26	0	0	0	0	NDN
390	2	Reinf Conc Wingwalls	(LF)	0	0	0	0	0	0	0
359	1	Soffit Smart Flag	(EA)	1	1	0	0	0	0	CS1: (1 EA) Span 4: Incip spall (12" x 4") in the E. o/hang @ Pier 4 joint. Span 6: Spall w/ exp steel (24"l x 4"w x up to 3"dp) along edge of E. o/hang, adj to top fl of BM 4 @ 1/3 span.
362	1	Traf Impact SmFlag	(EA)	1	0	1	0	0	0	CS2: (1 EA) Span 9 w/ collision scrapes (gouges) w/ rust on bottom flanges of BMS 1, 2 & 3 (Photo 15).

DELAWARE DEPARTMENT OF TRANSPORTATION

Bridge Management Section MultiSpan PONTIS Element Report for Span No. 2

Bridge ID: 1758G6149

Inspection Date: 2/1/2012

Description: Span 2 over DART Parking
Lot

ELEM	ENV	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4	CS5	COMMENTS
26	4	Conc Deck/Coatd Bars	(SF)	0	0	0	0	0	0	0
65	4	Drainage	(EA)	1	0	0	1	0	0	CS3: (1 EA) Scupper is completely clogged (Photo 10).
300	4	Strip Seal Exp Joint	(LF)	23	0	23	0	0	0	CS2: (23 LF) Filled w/ debris over shoulders and evidence of leakage.
301	4	Pourable Joint Seal	(LF)	0	0	0	0	0	0	0
302	4	Compressn Joint Seal	(LF)	0	0	0	0	0	0	0
321	4	R/Conc Approach Slab	(EA)	0	0	0	0	0	0	0
107	3	Paint Stl Opn Girder	(LF)	291	254	35	2	0	0	CS2: (35 LF) Light corrosion to all beam ends @ Piers, few areas of light freckled rust in bott fl & lower part of fascia webs and pigeon debris on bott flanges of BMs 1 & 2 @ Pier 2 (Photo 14). CS3: (2 LF) Blistering with rust @ ends of fascia beams @ Pier 2, mostly on flanges.
331	4	Conc Bridge Railing	(LF)	148	133	0	15	0	0	CS3: (15 LF) W. & E. parapets w/ shallow spalls w/ exp steel and horiz cracks w/ rust stains.
381	3	Painted Steel Diaphr	(EA)	12	12	0	0	0	0	NDN
310	4	Elastomeric Bearing	(EA)	0	0	0	0	0	0	0
311	4	Moveable Bearing	(EA)	4	4	0	0	0	0	CS1: (4 EA) Plate bearings are heavily greased.
313	4	Fixed Bearing	(EA)	4	4	0	0	0	0	CS1: (4 EA) Fixed bearings are heavily greased.
210	2	R/Conc Pier Wall	(LF)	8	5	0	3	0	0	CS3: (3 LF) Vert cracks with rust in the S. face @ the W. corner, under Bay 2 and E. face near bottom.
215	2	R/Conc Abutment	(LF)	0	0	0	0	0	0	0
234	2	R/Conc Pier Cap	(LF)	25	22	0	3	0	0	CS3: (3 LF) Crack w/ rust in u/side of cap @ end of E. o/hang. Fine crack with rust in SE & NE corners of Ped 2 and S. face at Bay 1.
390	2	Reinf Conc Wingwalls	(LF)	0	0	0	0	0	0	0
359	1	Soffit Smart Flag	(EA)	0	0	0	0	0	0	0
362	1	Traf Impact SmFlag	(EA)	0	0	0	0	0	0	0

DELAWARE DEPARTMENT OF TRANSPORTATION

Bridge Management Section MultiSpan PONTIS Element Report for Span No. 3

Bridge ID: 1758G6149

Inspection Date: 2/1/2012

Description: Span 3 over DART parking
lot (Code 1941)

ELEM	ENV	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4	CS5	COMMENTS
26	4	Conc Deck/Coatd Bars	(SF)	0	0	0	0	0	0	0
65	4	Drainage	(EA)	0	0	0	0	0	0	0
300	4	Strip Seal Exp Joint	(LF)	23	0	23	0	0	0	CS2: (23 LF) Evidence of leakage, daylight visible along u/side thruout the joint and mat'l is torn, settled and debonded.
301	4	Pourable Joint Seal	(LF)	0	0	0	0	0	0	0
302	4	Compressn Joint Seal	(LF)	0	0	0	0	0	0	0
321	4	R/Conc Approach Slab	(EA)	0	0	0	0	0	0	0
107	3	Paint Stl Opn Girder	(LF)	290	174	116	0	0	0	CS2: (116 LF) Light corrosion @ BM ends @ Piers, few small areas of peeling paint w/ exp primer in bott fl of BMs 2 & 3 @ Pier 3 and BM 4 @ Pier 2 and light freckled rust along edge of bott fl & bott half of the ext web of BMs 1 & 4.
331	4	Conc Bridge Railing	(LF)	148	0	0	148	0	0	CS3: (148 LF) Both E & W parapets w/ full length minor horiz. cracks w/ rust spots scattered along the length and few small spalls w/ exp steel. W. barrier w/ large spall w/ exp steel (18"l x 7"h) near midspan.
381	3	Painted Steel Diaphr	(EA)	12	11	1	0	0	0	CS2: (1 EA) Bay 1 diaph @ Pier 2 w/ light freckled rust.
310	4	Elastomeric Bearing	(EA)	0	0	0	0	0	0	0
311	4	Moveable Bearing	(EA)	4	4	0	0	0	0	CS1: (4 EA) Greased w/ NDN.
313	4	Fixed Bearing	(EA)	4	4	0	0	0	0	CS1: (4 EA) Fixed bearings are heavily greased.
210	2	R/Conc Pier Wall	(LF)	4	0	0	4	0	0	CS3: (4 LF) CS3: (4 LF) Vert cr's w/ rust on all faces typ @ 10' to 12' from ground. S. face w/ shallow spall w/ exp steel (3" diam).
215	2	R/Conc Abutment	(LF)	0	0	0	0	0	0	0
234	2	R/Conc Pier Cap	(LF)	26	26	0	0	0	0	NDN
390	2	Reinf Conc Wingwalls	(LF)	0	0	0	0	0	0	0
359	1	Soffit Smart Flag	(EA)	0	0	0	0	0	0	0
362	1	Traf Impact SmFlag	(EA)	0	0	0	0	0	0	0

DELAWARE DEPARTMENT OF TRANSPORTATION

Bridge Management Section MultiSpan PONTIS Element Report for Span No. 4

Bridge ID: 1758G6149
Description: Span 4 over Liberty
Street

Inspection Date: 2/1/2012

ELEM	ENV	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4	CS5	COMMENTS
26	4	Conc Deck/Coatd Bars	(SF)	0	0	0	0	0	0	0
65	4	Drainage	(EA)	0	0	0	0	0	0	0
300	4	Strip Seal Exp Joint	(LF)	23	0	23	0	0	0	CS2: (23 LF) Seal packed w/ debris over shoulders and active leakage prev. noted near BM 4. Two large spalls adj to joint w/ assoc. delam (64"w x 9"l and 36"w x 7"l) (Photo 9).
301	4	Pourable Joint Seal	(LF)	0	0	0	0	0	0	0
302	4	Compressn Joint Seal	(LF)	0	0	0	0	0	0	0
321	4	R/Conc Approach Slab	(EA)	0	0	0	0	0	0	0
107	3	Paint Stl Opn Girder	(LF)	290	276	10	4	0	0	CS2: (10 LF) Light corrosion @ end of BM 4 @ Pier 4 due to leaking jt. CS3: (4 LF) Mod. corrosion along edge of top flange of BM 1 @ Pier 4 and all beams @ Pier 3.
331	4	Conc Bridge Railing	(LF)	148	72	0	76	0	0	CS3: (76 LF) Both E & W parapets w/ few full length horiz. cracks w/ random rust stains along the length. W. parapet w/ several small spalls w/ exp steel. Spall with exp steel near midspan to E. barrier (12"l x 2"h) and W. barrier (23"l x 5"h) (Photo 11).
381	3	Painted Steel Diaphr	(EA)	12	11	1	0	0	0	CS2: (1 LF) Localized corrosion of top flange in Bay 3 diaph @ Pier 3.
310	4	Elastomeric Bearing	(EA)	0	0	0	0	0	0	0
311	4	Moveable Bearing	(EA)	4	4	0	0	0	0	CS1: (4 EA) Plate bearings are heavily greased.
313	4	Fixed Bearing	(EA)	4	4	0	0	0	0	CS1: (4 EA) Fixed bearings are heavily greased.
210	2	R/Conc Pier Wall	(LF)	8	8	0	0	0	0	NDN
215	2	R/Conc Abutment	(LF)	0	0	0	0	0	0	0
234	2	R/Conc Pier Cap	(LF)	25	25	0	0	0	0	NDN
390	2	Reinf Conc Wingwalls	(LF)	0	0	0	0	0	0	0
359	1	Soffit Smart Flag	(EA)	0	0	0	0	0	0	0
362	1	Traf Impact SmFlag	(EA)	0	0	0	0	0	0	0

DELAWARE DEPARTMENT OF TRANSPORTATION

Bridge Management Section MultiSpan PONTIS Element Report for Span No. 5

Bridge ID: 1758G6149

Inspection Date: 2/1/2012

Description: Span 5 over future
skateboard park (Code 3495)

ELEM	ENV	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4	CS5	COMMENTS
26	4	Conc Deck/Coatd Bars	(SF)	0	0	0	0	0	0	0
65	4	Drainage	(EA)	1	0	1	0	0	0	CS2: (1 EA) 1/3 of pan is clogged - pipe is open.
300	4	Strip Seal Exp Joint	(LF)	0	0	0	0	0	0	0
301	4	Pourable Joint Seal	(LF)	0	0	0	0	0	0	0
302	4	Compressn Joint Seal	(LF)	23	0	0	23	0	0	CS3: (23 LF) Minor spalls along joint and filled w/ debris and active leakage in Bays 1 & 2.
321	4	R/Conc Approach Slab	(EA)	0	0	0	0	0	0	0
107	3	Paint Stl Opn Girder	(LF)	290	286	0	4	0	0	CS3: (4 LF) Exposed and rusted steel mostly to the flanges at ends of fascias @ Piers. Heavy pigeon debris on bott fl's of BMs 3 & 4 @ Pier 5.
331	4	Conc Bridge Railing	(LF)	148	64	0	84	0	0	CS3: (84 LF) Minor cracking along bottom of E. parapet w/ rust stains & W. parapet w/ several small spalls w/ exp. steel painted over w/ new rust stains.
381	3	Painted Steel Diaphr	(EA)	12	12	0	0	0	0	NDN
310	4	Elastomeric Bearing	(EA)	4	4	0	0	0	0	CS1: (4 EA) Bearings are greased and in good condition.
311	4	Moveable Bearing	(EA)	0	0	0	0	0	0	0
313	4	Fixed Bearing	(EA)	4	4	0	0	0	0	CS1: (4 EA) Bearings are greased w/ no defects noted.
210	2	R/Conc Pier Wall	(LF)	8	8	0	0	0	0	NDN
215	2	R/Conc Abutment	(LF)	0	0	0	0	0	0	0
234	2	R/Conc Pier Cap	(LF)	26	26	0	0	0	0	NDN
390	2	Reinf Conc Wingwalls	(LF)	0	0	0	0	0	0	0
359	1	Soffit Smart Flag	(EA)	0	0	0	0	0	0	0
362	1	Traf Impact SmFlag	(EA)	0	0	0	0	0	0	0

DELAWARE DEPARTMENT OF TRANSPORTATION

Bridge Management Section MultiSpan PONTIS Element Report for Span No. 6

Bridge ID: 1758G6149

Inspection Date: 2/1/2012

Description: Span 6 over future
skateboard park (Code 3495)

ELEM	ENV	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4	CS5	COMMENTS
26	4	Conc Deck/Coatd Bars	(SF)	0	0	0	0	0	0	0
65	4	Drainage	(EA)	0	0	0	0	0	0	0
300	4	Strip Seal Exp Joint	(LF)	0	0	0	0	0	0	0
301	4	Pourable Joint Seal	(LF)	0	0	0	0	0	0	0
302	4	Compressn Joint Seal	(LF)	23	0	23	0	0	0	CS2: (23 LF) Joint filled w/ debris, evidence of leakage and numerous spalls along joint for full width.
321	4	R/Conc Approach Slab	(EA)	0	0	0	0	0	0	0
107	3	Paint Stl Opn Girder	(LF)	294	197	97	0	0	0	CS2: (97 LF) Localized light freckled rust on bottom flanges. Peeling paint w/ exp primer in u/side of BMs 2 & 4 @ N. end. Minor to mod bleeding rust to the end of BM 5 @ Pier 5.
331	4	Conc Bridge Railing	(LF)	148	147	1	0	0	0	CS2: (1 LF) Small spall in top of E. parapet (6"l x 2").
381	3	Painted Steel Diaphr	(EA)	12	2	9	1	0	0	CS2: (9 EA) Light freckled rust @ interiors and @ Bays 2 @ Pier 5 and Bays 2 & 3 @ Pier 6. CS3: (1 EA) Peeling & blistering paint to top flange of Bay 3 diaph @ Pier 6.
310	4	Elastomeric Bearing	(EA)	4	4	0	0	0	0	CS1: (4 EA) Bearings are greased w/ no defects noted.
311	4	Moveable Bearing	(EA)	0	0	0	0	0	0	0
313	4	Fixed Bearing	(EA)	4	4	0	0	0	0	CS1: (4 EA) Bearings are greased w/ no defects noted. Peeling paint w/ rusted steel to Brg 4.
210	2	R/Conc Pier Wall	(LF)	8	7	1	0	0	0	CS2: (1 LF) Large delam in E. face (60"h x 28"w) (Photo 17). CS3: (1 LF) Open/incip spall w/ exp steel (66"h x 33"w) @ bott E. face.
215	2	R/Conc Abutment	(LF)	0	0	0	0	0	0	0
234	2	R/Conc Pier Cap	(LF)	25	19	0	6	0	0	CS3: (6 LF) Large open/incip edge spall w/exp steel in top of cap, S. face under BM 3 (36"w x 22"h x 4"dp). Spall w/ exp steel (8" diam) in u/side of E. end; open/incip spall w/ exp steel in S. face @ Bay 2 (40"h x 16"w); and open/incip spall w/ exp steel in S. face under BM 3 @ bott of cap (28"w x 18"h). (Photo 17)
390	2	Reinf Conc Wingwalls	(LF)	0	0	0	0	0	0	0
359	1	Soffit Smart Flag	(EA)	0	0	0	0	0	0	0
362	1	Traf Impact SmFlag	(EA)	0	0	0	0	0	0	0

DELAWARE DEPARTMENT OF TRANSPORTATION

Bridge Management Section MultiSpan PONTIS Element Report for Span No. 7

Bridge ID: 1758G6149

Inspection Date: 2/1/2012

Description: Main Span over SR 4
(Maryland Ave)

ELEM	ENV	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4	CS5	COMMENTS
26	4	Conc Deck/Coatd Bars	(SF)	0	0	0	0	0	0	0
65	4	Drainage	(EA)	0	0	0	0	0	0	0
300	4	Strip Seal Exp Joint	(LF)	0	0	0	0	0	0	0
301	4	Pourable Joint Seal	(LF)	0	0	0	0	0	0	0
302	4	Compressn Joint Seal	(LF)	23	0	23	0	0	0	CS2: (23 LF) Joint filled w/ debris and has spalls along full width and previous active leakage noted in Bays 1 & 2.
321	4	R/Conc Approach Slab	(EA)	0	0	0	0	0	0	0
107	3	Paint Stl Opn Girder	(LF)	551	395	138	18	0	0	CS2: (138 LF) Ends of BMs @ Pier 7 w/ light spot rust, areas thruout w/ freckled rust & chalking thruout and peeling paint w/ exp primer in the u/side of BMs 2, 3 & 4. CS3: (18 LF) Rust to fl's @ end of BM 4 @ Pier 7 and blistering w/ rust to bott fl of BM 4 @ Pier 6 & 7.
331	4	Conc Bridge Railing	(LF)	276	276	0	0	0	0	NDN
381	3	Painted Steel Diaphr	(EA)	21	9	9	3	0	0	CS2: (9 EA) Light freckled rust or spot rust @ pier 6 & 7 diaph's and a few intermediate diaph's. CS3: (3 EA) Peeled paint w/ exp & rusted steel in Bay 2 @ Pier 6 and Bay 3 diaph over Pier 6 & 7.
310	4	Elastomeric Bearing	(EA)	4	4	0	0	0	0	CS1: (4 EA) Light surface rust w/ blistering and peeling paint to plates (Photo 12).
311	4	Moveable Bearing	(EA)	0	0	0	0	0	0	0
313	4	Fixed Bearing	(EA)	4	4	0	0	0	0	CS1: (4 EA) No defects noted, greased.
210	2	R/Conc Pier Wall	(LF)	8	7	1	0	0	0	CS2: (1 LF) Small shallow spall (4" diam) on S. face. CS3: (1 LF) Short HL horiz cr w/ rust in E. face.
215	2	R/Conc Abutment	(LF)	0	0	0	0	0	0	0
234	2	R/Conc Pier Cap	(LF)	26	26	0	0	0	0	NDN
390	2	Reinf Conc Wingwalls	(LF)	0	0	0	0	0	0	0
359	1	Soffit Smart Flag	(EA)	0	0	0	0	0	0	0
362	1	Traf Impact SmFlag	(EA)	0	0	0	0	0	0	0

DELAWARE DEPARTMENT OF TRANSPORTATION

Bridge Management Section MultiSpan PONTIS Element Report for Span No. 8

Bridge ID: 1758G6149

Inspection Date: 2/1/2012

Description: Span over DART parking
lot (Open driveway)

ELEM	ENV	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4	CS5	COMMENTS
26	4	Conc Deck/Coatd Bars	(SF)	0	0	0	0	0	0	0
65	4	Drainage	(EA)	0	0	0	0	0	0	0
300	4	Strip Seal Exp Joint	(LF)	0	0	0	0	0	0	0
301	4	Pourable Joint Seal	(LF)	0	0	0	0	0	0	0
302	4	Compressn Joint Seal	(LF)	23	0	23	0	0	0	CS2: (23 LF) Spalls along edges and active leakage in Bays 1 & 3. Completely filled w/ debris.
321	4	R/Conc Approach Slab	(EA)	0	0	0	0	0	0	0
107	3	Paint Stl Opn Girder	(LF)	256	172	52	32	0	0	CS2: (52 LF) Random areas of light spot rust on BMs 1, 2, 3 and on most of BM 4. Large area of peeled paint w/ exp primer @ N. end of BM 2. CS3: (32 LF) Peeled/blistered paint w/ rusted base metal along ext edge & top side of BM 4 bott fl along S. half.
331	4	Conc Bridge Railing	(LF)	129	127	2	0	0	0	CS2: (2LF) Open spall in top of W. parapet near midspan (19"l x 7"w x 3"dp).
381	3	Painted Steel Diaphr	(EA)	12	4	7	1	0	0	CS2: (7 EA) Several end and interior diaph's w/ light freckled rust or peeling paint with exp primer. CS3: (1 EA) Rust along top fl of Bay 3 diaph @ Pier 7 (Photo 16).
310	4	Elastomeric Bearing	(EA)	4	4	0	0	0	0	CS1: (4 EA) Bearings are heavily greased.
311	4	Moveable Bearing	(EA)	0	0	0	0	0	0	0
313	4	Fixed Bearing	(EA)	4	4	0	0	0	0	CS1: (4 EA) Bearings are heavily greased.
210	2	R/Conc Pier Wall	(LF)	8	8	0	0	0	0	NDN
215	2	R/Conc Abutment	(LF)	0	0	0	0	0	0	0
234	2	R/Conc Pier Cap	(LF)	25	22	2	1	0	0	CS2: (2 LF) Large delam in top of cap under BM 1 (22"w x 8"h). CS3: (1 LF) HL cracks w/ rust in u/side of E> o/hang.
390	2	Reinf Conc Wingwalls	(LF)	0	0	0	0	0	0	0
359	1	Soffit Smart Flag	(EA)	0	0	0	0	0	0	0
362	1	Traf Impact SmFlag	(EA)	0	0	0	0	0	0	0

DELAWARE DEPARTMENT OF TRANSPORTATION

Bridge Management Section MultiSpan PONTIS Element Report for Span No. 9

Bridge ID: 1758G6149

Inspection Date: 2/1/2012

Description: Span over DART parking
lot (Fenced w/ locked gate)

ELEM	ENV	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4	CS5	COMMENTS
26	4	Conc Deck/Coatd Bars	(SF)	0	0	0	0	0	0	0
65	4	Drainage	(EA)	0	0	0	0	0	0	0
300	4	Strip Seal Exp Joint	(LF)	0	0	0	0	0	0	0
301	4	Pourable Joint Seal	(LF)	0	0	0	0	0	0	0
302	4	Compressn Joint Seal	(LF)	23	0	23	0	0	0	CS2: (23 LF) Seal is completely filled w/ debris and there are edge spalls along the joint and evidence of leakage.
321	4	R/Conc Approach Slab	(EA)	0	0	0	0	0	0	0
107	3	Paint Stl Opn Girder	(LF)	271	221	35	15	0	0	CS2: (35 LF) Localized light spot rust on bottom flanges. CS3: (15 LF) BMs 1, 2 & 3 w/ collision scrapes (gouges) on bottom flanges w/ light rust. Heavier rust w/ peeled paint and exp & rusted steel @ end of BM 4 @ Pier 8 (Photo 13).
331	4	Conc Bridge Railing	(LF)	136	136	0	0	0	0	NDN
381	3	Painted Steel Diaphr	(EA)	12	3	9	0	0	0	CS2: (9 EA) Most end and int. diaph's w/ light spot rust.
310	4	Elastomeric Bearing	(EA)	4	4	0	0	0	0	CS1: (4 EA) Bearings are heavily greased.
311	4	Moveable Bearing	(EA)	0	0	0	0	0	0	0
313	4	Fixed Bearing	(EA)	4	4	0	0	0	0	CS1: (4 EA) Bearings are heavily greased.
210	2	R/Conc Pier Wall	(LF)	8	7	0	1	0	0	CS3: (1 LF) Areas of delam on E. face and cracks w/ rust.
215	2	R/Conc Abutment	(LF)	0	0	0	0	0	0	0
234	2	R/Conc Pier Cap	(LF)	26	25	0	1	0	0	CS3: (1 LF) Horiz cr w/ rust in top of cap, S. face, under Bay 3.
390	2	Reinf Conc Wingwalls	(LF)	0	0	0	0	0	0	0
359	1	Soffit Smart Flag	(EA)	0	0	0	0	0	0	0
362	1	Traf Impact SmFlag	(EA)	0	0	0	0	0	0	0

DELAWARE DEPARTMENT OF TRANSPORTATION

Bridge Management Section MultiSpan PONTIS Element Report for Span No. 10

Bridge ID: 1758G6149
Description: North Span

Inspection Date: 2/1/2012

ELEM	ENV	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4	CS5	COMMENTS
26	4	Conc Deck/Coatd Bars	(SF)	0	0	0	0	0	0	0
65	4	Drainage	(EA)	1	1	0	0	0	0	NDN
300	4	Strip Seal Exp Joint	(LF)	0	0	0	0	0	0	0
301	4	Pourable Joint Seal	(LF)	23	0	23	0	0	0	CS2: (23 LF) Seal has ashession failures and portions are completely missing. and is filled w/ debris. The header has numerous small edge spalls.
302	4	Compressn Joint Seal	(LF)	23	0	23	0	0	0	CS2: (23 LF) Seal is completely filled w/ debris, has spalls along the edges of joint and evidence of leakage on abut.
321	4	R/Conc Approach Slab	(EA)	1	0	1	0	0	0	CS2: (1 EA) Slab w/ minor to moderate wear in wheel lines, and random HL cracks thruout. Spall (17" w x 6" l) along NE edge @ relief joint. Relief joint adjacent to slab is heaved creating a speed bump w/ wide cracks and pot holes @ E. end (Photo 8).
107	3	Paint Stl Opn Girder	(LF)	272	252	20	0	0	0	CS2: (20 LF) Localized light spot rust on bottom flanges.
331	4	Conc Bridge Railing	(LF)	137	136	1	0	0	0	CS2: (1 LF) Spall (12" l x 6" h x 1.5" dp) to outside face of E. barrier atop wingwall approx 75' from bridge.
381	3	Painted Steel Diaphr	(EA)	12	0	10	2	0	0	CS2: (10 EA) Light spot rust on top flanges of end diaph @ bott fl's of int diaphs. CS3: (2 EA) End diaph @ Abut Bays 2 & 3 w/ exp & rusted steel along top flange.
310	4	Elastomeric Bearing	(EA)	4	0	4	0	0	0	CS2: (4 EA) Abut. bearings are greased and have mod to hvy rust to the steel plates.
311	4	Moveable Bearing	(EA)	0	0	0	0	0	0	0
313	4	Fixed Bearing	(EA)	4	4	0	0	0	0	CS1: (4 EA) Fixed bearings are heavily greased.
210	2	R/Conc Pier Wall	(LF)	0	0	0	0	0	0	0
215	2	R/Conc Abutment	(LF)	26	16	0	10	0	0	CS3: (10 LF) Horiz & vert cr's w/ rust stains along E. half (Photo 18).
234	2	R/Conc Pier Cap	(LF)	0	0	0	0	0	0	NDN
390	2	Reinf Conc Wingwalls	(LF)	180	180	0	0	0	0	0
359	1	Soffit Smart Flag	(EA)	0	0	0	0	0	0	0
362	1	Traf Impact SmFlag	(EA)	0	0	0	0	0	0	0



1. North Approach, looking South



2. West Elevation



3. General view of the underside, Span 4, looking North



4. Under Record, Span 4 over Liberty Street, looking West



5. Under Record, Span 4 over Liberty Street, looking East



6. Under Record, Span 7 over Maryland Ave, looking West



7. Under Record, Span 7 over Maryland Ave, looking East



8. Spall in the North approach slab along the east shoulder



9. Spalls along the joint at Pier 4, looking East



10. Clogged scupper at the NW corner of Span 2



11. Spall with exposed steel at the base of the West parapet in Span 4



12. Rust to Bearing 4, Span 7 at Pier 7 shown



13. Rust along the bottom flange of Beam 4 in Span 9 at Pier 8



14. Peeling paint w/ exposed primer to the end of Beam 2 and Bay 2 diaphragm in Span 8 at Pier 8



15. Scrapes and gouges with rust in the underside of Beam 3 in Span 9



16. Rust along the top flange edge of Bay 3 diaphragm in Span 8 at Pier 7



17. Large open and incipient spalls in the cap and stem of Pier 6, looking Northwest



18. General view of cracks with rust in the stem of the abutment

UNDER RECORD**For
Bridge: 1758G6149****IDENTIFICATION**

Bridge ID: 1758G6149	(2) District: 01	(3) County: 3
Inventory Route:		
(A) On/Under: 2	(B) Highway Type: 3	(C) Service Lvl: 1
(D) Route No: 00004		11) Mile Pt: 6.37 mi
6A) Features Intersected: SR 4, MARYLAND AVE.		6B) Critical:
16) Latitude: 39^44'27.47"	17) Longitude: 75^33'44.04"	

AGE AND SERVICE

19) Detour Length: 0 mi	27) Year Built: 1980	
28) No. of Lanes:	A) On Bridge: 2	B) Under Bridge: 2
29) ADT: 12033	30) Year of ADT: 2011	109) % Truck ADT: 6

CLASSIFICATION

20) Toll Facility: 3		
26) Functional Class: 14	37) Historical: 5	100) Defense Highway: 0
102) Direction: 2	103) Temp. Str.:	104) NHS: 0
110) Nat. Truck Network: 0		

GEOMETRIC DATA

10) Clearances - Vertical:: 22.9 ft		
42) Type of Service:	A) On Bridge: 1	B) Under Bridge: 1
43A) MAIN SPAN MATERIAL: 3		43B) DESIGN TYPE: 02
47) Inv. Route - Horiz. Clearance: 60.0 ft		
48) Length Maximum Span: 137.5 ft	49) Structure Length: 787.4 ft	

UNDER RECORD SKETCH

AECOM

SUBJECT
WILMINGTON BLVD. TO I-95 SB
OVER
SR 4 (MARYLAND BLVD.)

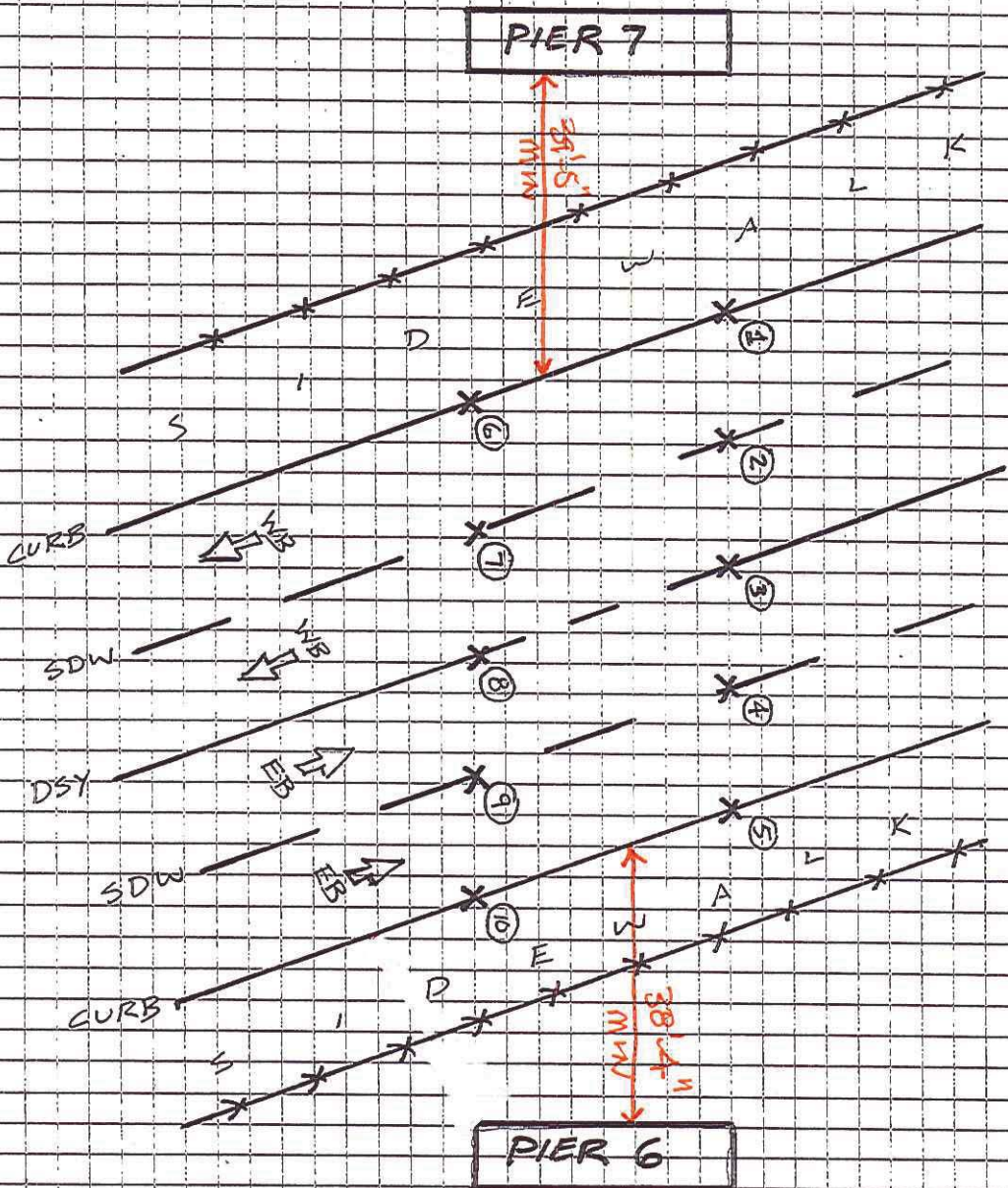
SHEET NO. _____ OF _____
JOB NO. _____ DATE: 2-1-2010
BY: DLR DATE: 2/1/2010
BY: DSH DATE: 2/1/2010

BRIDGE
NO. 17586

6149

AECOM No. 2010-33

DISTRICT DELDOT



VERTICAL UNDERCLEARANCES

①	22'-3 1/4"	⑥	24'-0 5/8"
②	22'-6 3/4"	⑦	23'-8 3/4"
③	22'-9 15/16"	⑧	23'-3 3/4"
④	23'-1 3/4"	⑨	23'-0 5/16"
⑤	23'-6 5/16"	⑩	22'-1 5/16"

AECOM

SUBJECT

Wilmington Blvd. to I-95 (SB)
OVER

Liberty Street

SHEET NO. _____ OF _____

JOB NO. _____

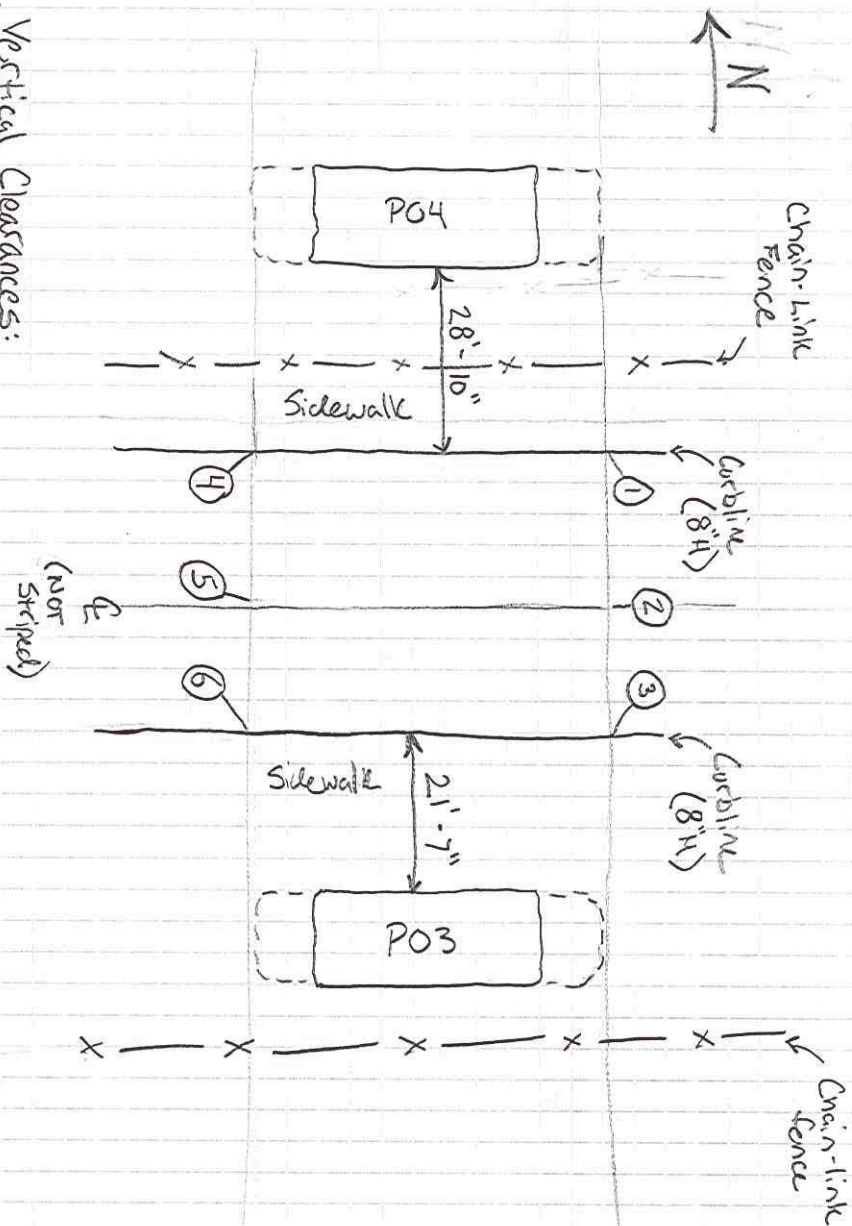
BY: DJA DATE: 2/2/2012

BY: _____ DATE: _____

BMS NO. 1758G 6149

AECOM No. 2012-29

DISTRICT DELDOT



Vertical Clearances:

- ① 34'-3 ¹⁵/₁₆"
- ② 34'-3 ¹/₄"
- ③ 34'-6 ¹/₄"
- ④ 34'-3 ¹/₂"
- ⑤ 34'-1 ⁹/₁₆"
- ⑥ 34'-3 ¹³/₁₆"