

APPENDIX H STRUCTURE INVENTORY AND APPRAISAL (SI&A) SHEETS

PUBLIC HIGHWAY/ROADWAY BRIDGES

202 COE Number XXXXXXXX-XXXXXX 8 NBI Structure Number: 15 digits

Geographical and Route Data		Dimensional Data	
1 State	3 digits	32 Approach Rdwy Width	4 digits XXX.X m
2 District	2 digits	39 Navigation Vert Clearance	4 digits XXX.X m
3 County	3 digits	40 Navigation Horiz Clearance	5 digits XXXX.X m
4 Place	5 digits	48 Max Span Length	5 digits XXXX.X m
6 Feature Under	25 digits	49 Str Length	6 digits XXXXX.X m
7 Facility On	18 digits	50 Curb/Sidewalk Width, Left	6 digits XX.X m, XX.X m
9 Location	25 digits	51 Brg Roadway Width, curb-curb	4 digits XXX.X m
16 Latitude	8 digits XXdegXXminXX.XXsec	52 Deck width out-out	4 digits XXX.X m
17 Longitude	9 digits XXXdegXXminXX.XXsec	53 Min Vert Clr Over	4 digits XX.XX m
98 Border Bridge	5 digits	54 Min Vert Clr under	5 digits X code, XX.XX m
99 Border Bridge Str No	15 digits	55 Min Lat Underclr R	4 digits X code, XX.X m
103 Temporary Str	1 digit	56 Min Lat Underclr L	3 digits XX.X m
		112 NBIS Bridge Length	1 digit
		116 Navigation Min Vert Clr	4 digits XXX.X m
On and Under Record Data		Proposed Improvements	
5 Inventory Route	9 digits	75 Type of Work	3 digits
10 Min Vert Clr	4 digits XX.XX m	76 Improvement Length	6 digits XXXXX.X m
11 Kilometer Point	7 digits XXXX.XXX	94 Bridge Improv Cost	6 digits
19 Detour Length	3 digits XXX	95 Rdwy Improv Cost	6 digits
20 Toll	1 digit	96 Total Proj Cost	6 digits
26 Func Class	2 digits	97 Year of Cost Est	4 digits
28 Lanes on/under	4 digits	114 Future ADT	6 digits
29 ADT	6 digits	115 Year of Future ADT	4 digits
30 Year ADT	4 digits		
47 Total Horz Clearance	3 digits XX.X		
100 Defense Hwy	1 digit		
101 Parallel Str	1 digit		
102 Direction of Traffic	1 digit		
104 Hwy System	1 digit		
109 Truck Traffic	2 digits XX%		
110 Natl Truck Network	1 digit		
General Data		Condition Rating	
12 Base Hwy Network	1 digit	58 Deck	1 digit
13 LRS Inventory Rt. Subrt.	12 digits	59 Superstructure	1 digit
21 Maintenance Responsibility	2 digits	60 Substructure	1 digit
22 Owner	2 digits	61 Channel & Channel Protect	1 digit
31 Design Load	1 digit	62 Culverts	1 digit
33 Bridge Median	1 digit		
34 Skew	2 digits XX deg.		
35 Str Flared	1 digit		
37 Hist Significance	1 digit		
38 Navigation Control	1 digit		
42 Type of Service	2 digits		
43 Structure Type Main	3 digits		
44 Structure Type Approach	3 digits		
45 No of Span Main	3 digits		
46 No of Approach Spans	4 digits		
27 Year Built	4 digits		
105 Federal Land Highways	1 digit		
106 Year Reconstructed	0000		
107 Deck Str Type	1 digit		
108 Wear Surf/Protv Sys	3 digits		
111 Nav Pier/ Abut Protection	1 digit		
Inspection data		Appraisal Rating	
90 Inspection Date (MoYr)	4 digits	67 Structure Evaluation	1 digit
91 Inspection Frequency	2 digits	68 Deck Geometry	1 digit
92 Critical Inspection Feature	9 digits	69 Underclm Vert & Horz	1 digit
Frac Crit Insp:	Y/N mo	71 Waterway Adequacy	1 digit
Underwater Insp:	Y/N mo	72 Approach Rdwy Alignment	1 digit
Other Spec Insp:	Y/N mo	36 Traffic Safety Features	4 digits
93 Critical Inspection Feature	12 digits	113 Scour Critical Bridges	1 digit
Frac Crit Insp:	moYr of last insp		
Underwater Insp:	moYr of last insp		
Other Spec Insp:	moYr of last insp		
Inspection data		Load Rate and Post	
90 Inspection Date (MoYr)	4 digits	41 Str Open/Post/Close	1 digit
91 Inspection Frequency	2 digits	63 Method to Detrmn Op. Rtg	1 digit
92 Critical Inspection Feature	9 digits	64 Operating Rating	3 digits XX.X metric tons
Frac Crit Insp:	Y/N mo	65 Method to Detrmn Inv. Rtg	1 digit
Underwater Insp:	Y/N mo	66 Inventory Rating	3 digits XX.X metric tons
Other Spec Insp:	Y/N mo	70 Bridge Posting	1 digit
93 Critical Inspection Feature	12 digits		
Frac Crit Insp:	moYr of last insp		
Underwater Insp:	moYr of last insp		
Other Spec Insp:	moYr of last insp		
Inspection data		Over 200 Items	
90 Inspection Date (MoYr)	4 digits	200 COE MSC	_____
91 Inspection Frequency	2 digits	201 COE District	_____
92 Critical Inspection Feature	9 digits	202 Structure Number	_____
Frac Crit Insp:	Y/N mo	203 Inspection Officer	_____
Underwater Insp:	Y/N mo	204 Inspector	_____
Other Spec Insp:	Y/N mo	205 Inspection Cost	_____
93 Critical Inspection Feature	12 digits	209 Recommended Speed Limit	_____
Frac Crit Insp:	moYr of last insp	210 Posted Speed Limit	_____
Underwater Insp:	moYr of last insp	216 Seismic Category	_____
Other Spec Insp:	moYr of last insp	217 Acceleration Coefficient	_____
		218 Soil Site Coefficient	_____

RAILROAD BRIDGES

202 COE Number XXXXXX-XXXXXX

8 NBI Structure Number: 15 digits

Geographical and Route Data	
1 State	3 digits
2 District	2 digits
3 County	3 digits
6 Feature Under	25 digits
7 Facility On	18 digits
9 Location	25 digits
16 Latitude	8 digits XXdegXXminXX.XXsec
17 Longitude	9 digits XXXdegXXminXX.XXsec
98 Border Bridge	5 digits
99 Border Bridge Str No	15 digits

Dimensional Data	
39 Navigation Vert Clearance	4 digits XXX.X m
40 Navigation Horiz Clearance	5 digits XXXX.X m
48 Max Span Length	5 digits XXXX.X m
49 Str Length	6 digits XXXXX.X m
50 Curb/Sidewalk Width, Left	6 digits XX.X m, XX.X m
51 Brg Roadway Width, curb-curb	4 digits XXX.X m
52 Deck width out-out	4 digits XXX.X m
53 Min Vert Clr Over	4 digits XX.XX m
54 Min Vert Clr under	5 digits X code, XX.XX m
55 Min Lat Underclr R	4 digits X code, XX.X m
116 Navigation Min Vert Clr	4 digits XXX.X m

On and Under Record Data	
5 Inventory Route	9 digits
10 Min Vert Clr	4 digits XX.XX m
11 Kilometer Point	7 digits XXXX.XXX
28 Lanes on/under	4 digits
29 ADT	6 digits
30 Year ADT	4 digits
47 Total Horz Clearance	3 digits XX.X

Proposed Improvements	
75 Type of Work	3 digits
76 Improvement Length	6 digits XXXXX.X m
94 Bridge Improv Cost	6 digits
95 Rdwy Improv Cost	6 digits
96 Total Proj Cost	6 digits
97 Year of Cost Est	4 digits
114 Future ADT	6 digits
115 Year of Future ADT	4 digits

General Data	
21 Maintenance Responsibility	2 digits
22 Owner	2 digits
34 Skew	2 digits XX deg.
35 Str Flared	1 digit
37 Hist Significance	1 digit
38 Navigation Control	1 digit
42 Type of Service	2 digits
43 Structure Type Main	3 digits
44 Structure Type Approach	3 digits
45 No of Span Main	3 digits
46 No of Approach Spans	4 digits
27 Year Built	4 digits
106 Year Reconstructed	4 digits
111 Nav Pier/ Abut Protection	1 digit

Condition Rating	
58 Deck	1 digit
59 Superstructure	1 digit
60 Substructure	1 digit
61 Channel & Channel Protect	1 digit
62 Culverts	1 digit

Appraisal Rating	
71 Waterway Adequacy	1 digit
72 Approach Rdwy Alignment	1 digit
36 Traffic Safety Features	4 digits
113 Scour Critical Bridges	1 digit

Inspection data	
90 Inspection Date (MoYr)	4 digits
91 Inspection Frequency	2 digits
92 Critical Inspection Feature	9 digits
Frac Crit Insp:	Y/N mo
Underwater Insp:	Y/N mo
Other Spec Insp:	Y/N mo
93 Critical Inspection Feature	12 digits
Frac Crit Insp:	moyr of last insp
Underwater Insp:	moyr of last insp
Other Spec Insp:	moyr of last insp

Load Rate and Post	
41 Str Open/Post/Close	1 digit

Over 200 Items	
200 COE Division	_____
201 COE District	_____
202 COE Number	_____
206 Cooper's loading	_____
207 Railroad Stru Number	_____
208 Name of Railroad	_____
209 Recommended Speed Limit	_____
210 Posted Speed Limit	_____
216 Seismic Category	_____
217 Acceleration Coefficient	_____
218 Soil Site Coefficient	_____

NON-PUBLIC ACCESS/SERVICE BRIDGES

202 COE Number XXXXXX-XXXXXX

8 NBI Structure Number: 15 digits

Geographical and Route Data	
1 State	3 digits
2 District	2 digits
3 County	3 digits
4 Place	5 digits
6 Feature Under	25 digits
7 Facility On	18 digits
9 Location	25 digits
16 Latitude	8 digits XXdegXXminXX.XXsec
17 Longitude	9 digits XXXdegXXminXX.XXsec
103 Temporary Str	1 digit

Dimensional Data	
32 Approach Rdwy Width	4 digits XXX.X m
48 Max Span Length	5 digits XXXX.X m
49 Str Length	6 digits XXXXX.X m
53 Min Vert Clr Over	4 digits XX.XX m
54 Min Vert Clr under	5 digits X code, XX.XX m
55 Min Lat Underclr R	4 digits X code, XX.X m
56 Min Lat Underclr L	3 digits XX.X m

On and Under Record Data	
5 Inventory Route	9 digits
10 Min Vert Clr	4 digits XX.XX m
29 ADT	6 digits
30 Year ADT	4 digits
47 Total Horz Clearance	3 digits XX.X

Proposed Improvements	
75 Type of Work	3 digits
76 Improvement Length	6 digits XXXXX.X m
94 Bridge Improv Cost	6 digits
95 Rdwy Improv Cost	6 digits
96 Total Proj Cost	6 digits
97 Year of Cost Est	4 digits
114 Future ADT	6 digits
115 Year of Future ADT	4 digits

General Data	
21 Maintenance Responsibility	2 digits
22 Owner	2 digits
34 Skew	2 digits XX deg.
37 Hist Significance	1 digit
38 Navigation Control	1 digit
42 Type of Service	2 digits
43 Structure Type Main	3 digits
44 Structure Type Approach	3 digits
45 No of Span Main	3 digits
46 No of Approach Spans	4 digits
27 Year Built	4 digits
106 Year Reconstructed	4 digits
107 Deck Str Type	1 digit
108 Wear Surf/Protv Sys	3 digits
111 Nav Pier/ Abut Protection	1 digit

Appraisal Rating	
67 Structure Evaluation	1 digit
68 Deck Geometry	1 digit
69 Underclrn Vert & Horz	1 digit
71 Waterway Adequacy	1 digit
72 Approach Rdwy Alignment	1 digit
36 Traffic Safety Features	4 digits
113 Scour Critical Bridges	1 digit

Condition Rating	
58 Deck	1 digit
59 Superstructure	1 digit
60 Substructure	1 digit
61 Channel & Channel Protect	1 digit
62 Culverts	1 digit

Load Rate and Post	
41 Str Open/Post/Close	1 digit
63 Method to Detrmn Op. Rtg	1 digit
64 Operating Rating	3 digits XX.X metric tons
65 Method to Detrmn Inv. Rtg	1 digit
66 Inventory Rating	3 digits XX.X metric tons
70 Bridge Posting	1 digit

Inspection data	
90 Inspection Date (MoYr)	4 digits
91 Inspection Frequency	2 digits
92 Critical Inspection Feature	9 digits
Frac Crit Insp:	Y/N mo
Underwater Insp:	Y/N mo
Other Spec Insp:	Y/N mo
93 Critical Inspection Feature	12 digits
Frac Crit Insp:	moyr of last insp
Underwater Insp:	moyr of last insp
Other Spec Insp:	moyr of last insp

Over 200 Items	
200 COE MSC	
201 COE District	
202 Structure Number	
203 Inspection Officer	
204 Inspector	
205 Inspection Cost	
209 Recommended Speed Limit	
210 Posted Speed Limit	
216 Seismic Category	
217 Acceleration Coefficient	
218 Soil Site Coefficient	

PEDESTRIAN BRIDGES

202 COE Number XXXXXXXX-XXXXXX

8 NBI Structure Number: 15 digits

Geographical and Route Data	
1 State	3 digits
2 District	2 digits
3 County	3 digits
4 Place	5 digits
6 Feature Under	25 digits
7 Facility On	18 digits
9 Location	25 digits
16 Latitude	8 digits XXdegXXminXX.XXsec
17 Longitude	9 digits XXXdegXXminXX.XXsec

Dimensional Data	
48 Max Span Length	5 digits XXXX.X m
49 Str Length	6 digits XXXXX.X m
51 Brg Roadway Width, curb-curb	4 digits XXX.X m
52 Deck width out-out	4 digits XXX.X m

Proposed Improvements	
75 Type of Work	3 digits
94 Bridge Improv Cost	6 digits
95 Rdwy Improv Cost	6 digits
96 Total Proj Cost	6 digits
97 Year of Cost Est	4 digits

General Data	
21 Maintenance Responsibility	2 digits
22 Owner	2 digits
34 Skew	2 digits XX deg.
35 Str Flared	1 digit
42 Type of Service	2 digits
43 Structure Type Main	3 digits
44 Structure Type Approach	3 digits
45 No of Span Main	3 digits
46 No of Approach Spans	4 digits
27 Year Built	4 digits
106 Year Reconstructed	4 digits
107 Deck Str Type	1 digit
108 Wear Surf/Protv Sys	3 digits

Condition Rating	
58 Deck	1 digit
59 Superstructure	1 digit
60 Substructure	1 digit
61 Channel & Channel Protect	1 digit

Appraisal Rating	
71 Waterway Adequacy	1 digit
72 Approach Rdwy Alignment	1 digit
36 Traffic Safety Features	4 digits
113 Scour Critical Bridges	1 digit

Inspection data	
90 Inspection Date (MoYr)	4 digits
91 Inspection Frequency	2 digits
92 Critical Inspection Feature	9 digits
Frac Crit Insp:	Y/N mo
Underwater Insp:	Y/N mo
Other Spec Insp:	Y/N mo
93 Critical Inspection Feature	12 digits
Frac Crit Insp:	moYr of last insp
Underwater Insp:	moYr of last insp
Other Spec Insp:	moYr of last insp

Load Rate and Post	
41 Str Open/Post/Close	1 digit
220 Pedestrian (kilopascal)	
221 Vehicle (Metric Tons)	

Over 200 Items	
202 Structure Number	
203 Inspection Officer	
204 Inspector	
205 Inspection Cost	
216 Seismic Category	
217 Acceleration Coefficient	
218 Soil Site Coefficient	