TABLE OF CONTENTS

APPENDICIES

SECTION 1.0 – INSPECTION SUMMARY

1.1 BRIDGE DESCRIPTION

Year Built	1939
Lanes on Bridge	2 vehicle lanes
Sidewalk(s)	3’-0” wide upstream and downstream sidewalks
No. of Spans	1
Bridge Posting Sign(s)	Weight Limit: 32 tons Sign Locations: - Upstream east approach - Downstream west approach
Approach Slab Material and Location	N/A
Deck Wearing Surface	Asphalt Wearing Surface
Culvert Material and Type	N/A
Deck Material and Type	Reinforced concrete top flange
Superstructure Material and Type	4 Reinforced concrete girders
Substructure Material and Type	Reinforced concrete abutments with wingwalls
Bearing Type	Fixed bearings at Abutment 1 Moveable expansion bearings at Abutment 2
Bridge Railing Material	Reinforced concrete railing system
Bridge Railing Height	2’-10”

Record drawings on file at the City and County of Honolulu, Department of Design and Construction, Civil Division, include the following:

- Job Number: 4-C
- Structure Name: Honouliuli Bridge
- Project Name: Honouliuli Bridge
- Year Approved: 1938
- File Number: 4449.36 – 4449.41

Abutment 1 and Abutment 2 are at the east and west ends of the bridge, respectively.

Girder count starts from the upstream side of the bridge.

1.2 PARKING, BRIDGE ACCESS, AND SAFETY HAZARDS

Parking to Perform Bridge Inspection	Along shoulder of Farrington Highway at downstream east approach to bridge
Access to Underside of Bridge	Upstream west side of bridge
Equipment Used to Access Underside of Bridge	None
Traffic Control	N/A
Water Depth at Time of Inspection	0”-1’

1.3 OVERALL CONDITION

The bridge structure is in fair condition. Periodic bridge inspections are recommended to occur within 24-month intervals as specified in the National Bridge Inspection Standards (NBIS). National Bridge Inspection (NBI) Ratings for the previous inspection and the current inspection are as follows:

NBI ITEM		NBI RATINGS	
		PREVIOUS INSPECTION	CURRENT INSPECTION
#36	Traffic Safety Features (Bridge Railings, Transitions, Approach Guardrail, Approach Guardrail Ends) (Per BrM Database)	0, 0, 0, 0	0, 0, 0, 0
#58	Deck	6	6
#59	Superstructure	5	5
#60	Substructure	5	5
#61	Channel & Channel Protection	6	6
#62	Culvert	N	N
#67	Structural Condition	4	4
#71	Waterway Adequacy Comments: Observed conditions appear similar to the previous inspection. No analysis was performed to evaluate flood/overtopping risk.	7	7
#113	Scour Comments: No scour observed	3	3

SECTION 2.0 – LOAD RATING SUMMARY

The bridge is currently posted for reduced load carrying capacity. Load posting signs were observed at bridge approaches. Based on visual observations at the time of this inspection, there appears to be no immediate signs of overstress or increased distress for the bridge that would affect rating calculations since the last inspection report dated November 19, 2019 by Nagamine Okawa Engineers Inc. The most recent load rating was performed on December 2, 2019 by Nagamine Okawa Engineers Inc. See the following load rating summary sheets.

CITY AND COUNTY OF HONOLULU
DEPARTMENT OF DESIGN AND CONSTRUCTION
CIVIL DESIGN AND ENGINEERING DIVISION
Bridge Load Rating Summary

Existing Bridge Data

Structure Number:	003922001100001	Last Load Rating Date:	2/27/2015
Bridge Name:	Farr Hwy Bridge	Last Inspection Date:	11/19/2019
Bridge Number:	922	Inspected By:	Nagamine Okawa
District:	Waianae	Fracture Critical Member (Y/N):	N
Span Type:	RC T Beam	Item 58, Deck Rating:	6
Bridge Plans Available (Y/N):	Y	Item 59, Superstructure Rating:	5
Design Loading:	-	Item 60, Substructure Rating:	5
Past Inventory Rating (HL93):	0.54	Bridge Load Posted (Y/N):	N
Past Operating Rating (HL93):	0.70	Posted Weight Limit:	N/A

Bridge Load Rating Summary

Dead Load Data

Overlay Type:	AC
Overlay Depth (IN):	2
Was Overlay Depth Measured (Y/N):	Y
Weight of Utilities:	0.003 k/ft
Weight of other Non-Structural Attachments:	n/a

LRFR Evaluation Factors

Surface Roughness Rating:	3
Condition Factor:	0.95
System Factor:	1.00
ADTT (one way):	Unknown

Superstructure/Deck Rating Summary

	Vehicle Type	Vehicle GVW (Kips)	Rating Factor	Controlling Member	Controlling Load Effect	IM	Live Load Distribution Factor
Design Load	HL-93 (INV)	N/A	0.69	Interior Girder	Flexure	33%	0.717
	HL-93 (OPR)	N/A	0.89	Interior Girder	Flexure	33%	0.717
Legal Load	Type 3	50.0	1.64	Interior Girder	Flexure	10%	0.717
	Type 3S2	72.0	1.79	Interior Girder	Flexure	10%	0.717
	Type 3-3	80.0	1.95	Interior Girder	Flexure	10%	0.717
	NRL	80.0	1.05	Interior Girder	Flexure	10%	0.717
	SU4	54.0	1.43	Interior Girder	Flexure	10%	0.717
	SU5	62.0	1.32	Interior Girder	Flexure	10%	0.717
	SU6	69.5	1.19	Interior Girder	Flexure	10%	0.717
	SU7	77.5	1.10	Interior Girder	Flexure	10%	0.717
	EV2	57.5	2.30	Interior Girder	Shear	10%	0.779
	EV3	86.0	1.55	Interior Girder	Shear	10%	0.779
Permit Load	HP1	120.0	1.56	Interior Girder	Flexure	10%	0.779
	HP2	157.1	1.64	Interior Girder	Shear	10%	0.779
	HP3	209.9	2.12	Interior Girder	Shear	10%	0.779

Substructure Rating Summary

Substructure Rated (Y/N): N

Vehicle Type	Vehicle GVW (Kips)	Rating Factor	Controlling Member	Controlling Load Effect	IM	Live Load Distribution Factor
HL-93 (INV)	N/A					
HL-93 (OPR)	N/A					
Legal Load						
Permit Load						

Posting Analysis Summary

Legal Load	Governing Legal Load Rating Factor:	1.10
	Governing Legal Load Model:	SU7
	Posting Recommended (Y/N):	N
	Recommended Posting Load:	-
EV	EV2 Rating Factor	2.30
	EV3 Rating Factor	1.55
	Recommended Single Axle Posting	-
	Recommended Tandem Posting	-
	Recommended GVW Posting	-

Please check the following boxes that apply:

- [ ] Bridge load rating is not governed by deck rating
- [ ] Bridge load rating is not governed by substructure rating
- [ ] Connections do not control the bridge load rating
- [ ] Exterior girder controls the bridge load rating
- [ ] Bridge plans do not exist - Rating based on judgement and current loading

Remarks/Recommendations for Bridges without Plans

Quality Control/Quality Assurance

Load Rating Engineer
- Name: Norman Nagamine
- License No.: 5479-S
- Signature: Norman Nagamine

Load Rating Checked By: Colin Kodama
Quality Assurance By: Karl Umemoto
Load Rating Date: 12/2/2019

CITY AND COUNTY OF HONOLULU
DEPARTMENT OF DESIGN AND CONSTRUCTION
CIVIL DESIGN AND ENGINEERING DIVISION
Bridge Load Rating Summary

Existing Bridge Data

Structure Number:	003922001100001	Last Load Rating Date:	2/27/2015
Bridge Name:	Farr Hwy Bridge	Last Inspection Date:	11/19/2019
Bridge Number:	922	Inspected By:	Nagamine Okawa
District:	Waianae	Fracture Critical Member (Y/N):	N
Span Type:	RC T Beam	Item 58, Deck Rating:	6
Bridge Plans Available (Y/N):	Y	Item 59, Superstructure Rating:	5
Design Loading:	-	Item 60, Substructure Rating:	5
Past Inventory Rating (HL-93):	0.54	Bridge Load Posted (Y/N):	N
Past Operating Rating (HL-93):	0.70	Posted Weight Limit:	N/A

Bridge Load Rating Summary

Dead Load Data

Overlay Type:	AC
Overlay Depth (IN):	2
Was Overlay Depth Measured (Y/N):	Y
Weight of Utilities:	0.003 k/ft
Weight of other Non-Structural Attachments:	n/a

LRFR Evaluation Factors

Surface Roughness Rating:	3
Condition Factor:	0.95
System Factor:	1.00
ADTT (one way):	Unknown
ADT:	-

Superstructure/Deck Rating Summary

	Vehicle Type	Vehicle GVW (Kips)	Rating Factor	Travel	Controlling Member	Controlling Load Effect	IM	Live Load Distribution Factor
Refuse Vehicles	REF1	51.00	1.70	Yes	Interior Girder	Flexure	10%	0.717
	REF2	57.18	1.47	Yes	Interior Girder	Flexure	10%	0.717
	REF3	45.94	1.64	Yes	Interior Girder	Flexure	10%	0.717
	REF4	57.50	1.47	Yes	Interior Girder	Flexure	10%	0.717
Buses	BUS1	30.99	2.46	Yes	Interior Girder	Flexure	10%	0.717
	BUS2	39.60	1.97	Yes	Interior Girder	Flexure	10%	0.717
	BUS3	39.60	2.11	Yes	Interior Girder	Shear	10%	0.779
	BUS4	64.38	2.09	Yes	Interior Girder	Shear	10%	0.779
	BUS5	67.24	1.90	Yes	Interior Girder	Shear	10%	0.779
	BUS6	67.78	1.89	Yes	Interior Girder	Shear	10%	0.779
	BUS7	66.79	1.92	Yes	Interior Girder	Shear	10%	0.779
	BUS8	39.90	2.05	Yes	Interior Girder	Shear	10%	0.779
	BUS9	39.60	2.23	Yes	Interior Girder	Shear	10%	0.779
	BUS10	39.60	2.23	Yes	Interior Girder	Shear	10%	0.779
	BUS11	42.54	2.06	Yes	Interior Girder	Shear	10%	0.779
Honolulu Fire Department Trucks	HFD1	38.40	2.48	Yes	Interior Girder	Shear	10%	0.779
	HFD2	42.74	2.30	Yes	Interior Girder	Shear	10%	0.779
	HFD3	43.50	2.27	Yes	Interior Girder	Shear	10%	0.779
	HFD4	49.80	2.01	Yes	Interior Girder	Shear	10%	0.779
	HFD5	49.80	2.04	Yes	Interior Girder	Shear	10%	0.779
	HFD6	49.80	2.01	Yes	Interior Girder	Shear	10%	0.779
	HFD7	52.20	1.97	Yes	Interior Girder	Shear	10%	0.779
	HFD8	62.74	1.63	Yes	Interior Girder	Flexure	10%	0.717
	HFD9	73.50	1.41	Yes	Interior Girder	Flexure	10%	0.717
	HFD10	59.24	2.23	Yes	Interior Girder	Shear	10%	0.779
	HFD11	60.00	1.67	Yes	Interior Girder	Flexure	10%	0.717
	HFD12	51.18	1.86	Yes	Interior Girder	Flexure	10%	0.717
	HFD13	58.00	1.60	Yes	Interior Girder	Flexure	10%	0.717
	HFD14	44.00	2.17	Yes	Interior Girder	Shear	10%	0.779
	HFD15	44.00	2.21	Yes	Interior Girder	Shear	10%	0.779
	HFD16	44.00	2.27	Yes	Interior Girder	Shear	10%	0.779
	HFD17	42.74	2.50	Yes	Interior Girder	Shear	10%	0.779
	HFD18	76.60	1.76	Yes	Interior Girder	Flexure	10%	0.717
	HFD19A	77.56	1.95	Yes	Interior Girder	Shear	10%	0.779
	HFD19B	77.56	1.37	Yes	Interior Girder	Flexure	10%	0.717
	HFD20A	87.56	1.86	Yes	Interior Girder	Shear	10%	0.779
	HFD20B	87.56	1.37	Yes	Interior Girder	Flexure	10%	0.717
	HFD21	42.00	2.40	Yes	Interior Girder	Shear	10%	0.779
	HFD22	37.00	2.78	Yes	Interior Girder	Shear	10%	0.779

Substructure Rating Summary

Substructure Rated (Y/N): N

Recommended Refuse Vehicle

Recommended Refuse LR Factor:	1.70
Recommended Refuse Load Model:	REF1
Recommended Max Payload:	FULL

*Payload is the Allowable Vehicle Load Carrying Capacity

Please check the following boxes that apply:

- ☐ Bridge load rating is not governed by deck rating
- ☐ Bridge load rating is not governed by substructure rating
- ☐ Connections do not control the bridge load rating
- ☐ Exterior strip controls the bridge load rating
- ☐ Bridge plans do not exist - Rating based on judgement and current loading

Quality Control/Quality Assurance

Load Rating Engineer
- Name: Norman Nagamine
- License No.: 5479-S
- Signature: Norman Nagamine

Load Rating Checked By: Colin Kodama
Quality Assurance By: Karl Umemoto
Load Rating Date: 12/2/19

Remarks/Recommendations for Bridges without Plans

*Refuse (REF) vehicles may travel over the bridge at the reduced allowable payload indicated.

SECTION 3.0 – BrM ELEMENT AND SI&A REPORTS

BrM Element and SI&A Reports for this inspection cycle are provided on the following pages.

STATE OF HAWAII
CITY & COUNTY OF HONOLULU
BRIDGE INSPECTION REPORT

Inspection Date: September 01, 2021

Bridge Number: 003922001100001 Bridge Name: FARRINGTON HWY BRIDGE

County Oahu Route No: 09107 Milepost: 0 Facility: FARR HWY

NBI ITEM 36 - TRAFFIC SAFETY FEATURES		List any maintenance work required: (ie: defects, missing bolts, collision damage, etc.)
36A	Bridge Railings	36A: See Element Defects below.
36B	Transitions	
36C	Approach Guardrail	
36D	Approach Guardrail Ends	

ELEMENT INSPECTION

ELEM NO. / DEFECT	ELEMENT / DEFECT DESCRIPTION	ENV.	TOTAL QUANTITY	UNIT	CS 1 (Good)	CS 2 (Fair)	CS 3 (Poor)	CS 4 (Severe)
16	Re Conc Top Flange	1	1,607	sq.ft	1,594	13	0	0
1120	Efflorescence/Rust Staining		13	sq.ft	0	13	0	0
510	Wearing Surfaces		1,607	sq.ft	1,607	0	0	0

Defect No. 1120:
- Moderate width cracks with surface white efflorescence (13SF CS2) on top flange soffit (Photos 19 – 21)

110	Re Conc Opn Girder/Beam	1	204	ft	194	10	0	0
1080	Delamination/Spall/Patched		1	ft	0	1	0	0
1090	Exposed Rebar		1	ft	0	1	0	0
1130	Cracking (RC and Other)		8	ft	0	8	0	0

Defect No. 1080:
- 6”x2”x2” edge spall (1FT CS2) on girder G4 (Photo 22)

Defect No. 1090:
- 4”x4” edge spall with exposed rebar without section loss (1FT CS2) on girder G3 (Photo 23)

Defect No. 1130:
- Moderate width diagonal cracks (8FT CS2) on all girders (Photo 24)

215	Re Conc Abutment	1	173	ft	42	129	2	0
1130	Cracking (RC and Other)		32	ft	0	30	2	0
1190	Abrasion(PSC/RC)		99	ft	0	99	0	0

Defect No. 1130:
- Wide vertical crack (1FT CS3) on Abutment 2 below girder G2 (Photo 27)
- Wide vertical crack (1FT CS3) on downstream west wingwall (Photo 28)
- Moderate width cracks (30FT CS2) on both abutments and all wingwalls (Photo 29)

Defect No. 1190:
- Partial abrasion (99FT CS2) along entire length of Abutment 1 and wingwalls (Photo 30)

311	Moveable Bearing	1	4	each	4	0	0	0
313	Fixed Bearing	1	4	each	4	0	0	0
331	Re Conc Bridge Railing	1	103	ft	32	71	0	0
1080	Delamination/Spall/Patched		25	ft	0	25	0	0
1090	Exposed Rebar		1	ft	0	1	0	0
1130	Cracking (RC and Other)		45	ft	0	45	0	0

Defect No. 1080:
- Typical delaminations and spalls (25FT CS2) on pickets, top and bottom rails of both bridge railings (Photos 10 - 14)

Defect No. 1090:
- Exposed rebar without section loss (1FT CS2) on downstream bridge railing (Photo 15)

Defect No. 1130:
- Typical moderate width cracks (45FT CS2) on both bridge railings (Photo 16)

NBI ITEM CONDITION RATINGS			Describe defects noted during bridge inspection. Provide sketches, diagrams, and photographs where possible.
58	Deck	6	See bridge element/defect notes and descriptions listed for defects noted during inspection. See also report, photographs and figures for defects noted during inspection.
59	Superstructure	5	
60	Substructure	5	
61	Channel and Channel Protection	6	
62	Culvert	N	
71	Waterway Adequacy	7	

NBI ITEM 93 - CRITICAL FEATURE INSPECTION		REQUIRED	FREQUENCY	CURRENT	NEXT
93A	Fracture Critical Details	N			
93B	Underwater Inspection	N		12/21/11	

OTHER FEATURES			REMARKS
Posted Status (NBI Item 41)	P - Posted for load		Bridge posted for 32 tons at east and west approaches. Bridge posting not required according to previous load rating summary sheet.
Posted Weight Limit	(Posted limit (Tons) or 'N' if not applicable)	32	
Signing for Posting Legible/Visible? (Provide 2 pictures of signs. 1 on each end of bridge)	(Y or N)	Y	
Riding Surface (Roughness) Rating	(3 - smooth, 2 - Avg, 1 - Poor)	3	

REPAIRS, IMPROVEMENTS AND RECOMMENDATIONS
List all work done to this bridge since last inspection (ie: structural repair work, cleaning, maintenance work, etc.)
List proposed and/or recommended work for this bridge including estimated cost (ie: structural repair work, cleaning, maintenance, etc.)

- Upgrade bridge railings to current acceptable standards (Est. Cost = $250,000)
- Upgrade guardrail transitions and guardrail ends to meet current acceptable standards (Off-Bridge Repair Item)
- Repair spalls/delamiantions on bridge railings (Est. Cost = $15,000)
- Repair cracks on abutments and wingwalls (Est. Cost = $1,000)

Other comments or observations.

Inspector: **Signature:** _____ **Phone:** 808-488-7579
Amar P Jaishi

Inspector: **Signature:** _____ **Phone:** 808-488-7579
Noe Lum

Team Leader: **Signature:** _____ **Phone:** 808-488-7579
Glenn Miyasato

Office: MKE Associates LLC **Certification Date:** 06/15/2017

BIP Leader: **Signature:** _____ **QC Date:** _____
Stanley Katsura

Office: C&C of Honolulu

Attachments:

Structural Inventory & Appraisal (SI&A) Sheet

Photos

State of Hawaii
Department of Transportation
Structure Inventory and Appraisal Sheet (English Units)

Name: **FARRINGTON HWY BRIDGE** Bridge No: **003922001100001** Inspection Date: 09/01/2021

IDENTIFICATION

Rte.(On/Under)	**5A:**	Route On Structure	**State**	**1:**	15 Hawaii
Rte. Signing Prefix	**5B:**	5 City Street	**Facility Carried**	**7:**	FARR HWY
Level of Service	**5C:**	0 None of the below	**Place Code**	**4:**	
Route Number	**5D:**	09107	**SHD District**	**2:**	25 Oahu
Directional Suffix	**5E:**	0 N/A (NBI)	**Feature Intersected**	**6:**	FARR HWY/HONOULIULI STRM
Border Bridge Code	**98:**	Unknown (P)	**County Code**	**3:**	Oahu
Border Bridge Number	**99:**	NA	**Location**	**9:**	TMK=9-1-17
Mile Post	**11:**	NA	**Latitude**	**16:**	21° 22' 28"
Struc Num	**8:**	003922001100001	**Longitude**	**17:**	158° 02' 01"

INSPECTION

Inspection Date	**90:**	9/1/2021	**Frequency**	**91:**	24 months	**Next Inspection:**	9/1/2023
FC Inspection Date	**93A:**	NA	**FC Frequency**	**92A:**		**Next FC Inspection:**	
UW Inspection Date	**93B:**	NA	**UW Frequency**	**92B:**		**Next UW Inspection:**	

CONDITION

Deck	**58:**	6 Satisfactory	**Super**	**59:**	5 Fair	**Sub**	**60:** 5 Fair
Culvert	**62:**	N N/A (NBI)	**Channel/Channel Protection**	**61:**	6 Bank Slumping		

SD/FO: ND
SUFF RATE: 49.1

LOAD RATING AND POSTING

Inventory Rating Method	**65:**	8 LRFR (HL93)	**Operating Rating Method**	**63:**	8 LRFR (HL93)
Inventory Rating	**66:**	0.69	**Operating Rating**	**64:**	0.89
Design Load	**31:**	5 MS 18 (HS 20)	**Posting**	**70:**	5 At/Above Legal Loads
Posting Status	**41:**	A - Open, no restriction			

GEOMETRIC DATA

Length Max Span	**48:**	40.03 ft	**Structure Length**	**49:**	54.13 ft
Width Curb to Curb	**51:**	23.95 ft	**Curb/Sdwlk Width L**	**50A:**	2.95 ft
Approach Roadway width (w/ shoulders)	**32:**	28.87 ft	**Curb/Sidewalk Width R**	**50B:**	2.95 ft
			Width Out to Out	**52:**	32.15 ft
Deck Area:		1,743.75 sq. ft	**Median**	**33:**	0 No median
Skew	**34:**	33.00°	**Structure Flared**	**35:**	0 No flare
Vertical Clearance	**10:**	99.99 ft	**Horizontal Clearance**	**47:**	23.95 ft
Min. Vert. Cl. Over Bridge	**53:**	99.99 ft	**Min. Lat. Undercl. Ref. R**	**55A:**	N Feature not hwy or RR
Min. Vert. Undercl. Ref.	**54A:**	N Feature not hwy	**Min. Lat. Undercl. R**	**55:**	0.00 ft
Min. Vert. Undercl.	**54B:**	0.00 ft	**Min. Lat. Undercl. L**	**56:**	0.00 ft

AGE AND SERVICE

Year Built	**27:**	1939	**ADT**	**29:**	7,587
Type of Service on	**42A:**	5 Highway-pedestrian	**Year Reconstructed**	**106:**	-1
Type of Service under	**42B:**	5 Waterway	**Detour Length**	**19:**	9.9 mi
Lanes on	**28A:**	2	**Truck ADT**	**109:**	0%
Lanes under	**28B:**	0	**Year of ADT**	**30:**	1987

STRUCTURE TYPE AND MATERIALS

Deck Type	**107:**	1 Concrete-Cast-in-Place	**Number of Spans Main Unit**	**45:**	1
Wearing Surface	**108A:**	6 Bituminous	**Main Span Material Design**	**43A:**	1 Concrete
Membrane	**108B:**	0 None	**Main Span Material Design**	**43B:**	04 Tee Beam
Deck protection	**108C:**	None	**Number of Approach Spans**	**46:**	0

State of Hawaii
Department of Transportation
Structure Inventory and Appraisal Sheet (English Units)

APPRAISAL					
Bridge Rail	36A:	0 Substandard	**Approach Rail**	36C:	0 Substandard
Transition	36B:	0 Substandard	**Approach Rail Ends**	36D:	0 Substandard
Str Evaluation	67:	5 Above Min Tolerable	**Deck Geometry**	68:	2 Intolerable - Replace
Waterway Adequacy	71:	7 Above Minimum	**Approach Alignment**	72:	8 Equal Desirable Crit
Scour Critical	113:	3 SC - Unstable	**Vert. & Horiz. Undercl.**	69:	N Not applicable (NBI)

CLASSIFICATION					
Defense Highway	100:	0 Not a STRAHNET hwy	**Parallel Structure**	101:	No || bridge exists
Direction of Traffic	102:	2 2-way traffic	**Temporary Structure**	103:	Unknown (NBI)
Highway System	104:	3 On free road	**NBIS Length**	112:	Long Enough
Defense Hwy	110:	0 Not on NHS	**Functional Class**	26:	17 Urban Collector
Toll Facility	20:	0 Not a STRAHNET hwy	**Historical Significance**	37:	5 Not eligible for NRHP
Owner	22:	County Hwy Agency	**Custodian**	21:	County Hwy Agency

PROPOSED IMPROVEMENTS					
Bridge Cost	94:	$0	**Type of Work**	75:	38 Other Structural
Roadway Cost	95:	$19,000	**Length of Improvement**	76:	76.8 ft
Total Cost	96:	$282,000	**Future ADT**	114:	9,484
Year of Cost Estimate	97:	2004	**Year of Future ADT**	115:	2025

NAVIGATION DATA					
Navigation Control	38:	Permit Not Required	**Horizontal Clearance**	40:	0.0 ft
Vertical Clearance	39:	0.0 ft	**Lift Bridge Vert. Cl.**	116:	
Pier Protection	111:	Unknown (NBI)			