



SR 400 (I-4) Project Development and Environment (PD&E) Study
FM No.: 432100-1-22-01

St. Johns River Multi-Use Bridge Concept Report

Segments 3 & 4: Seminole
& Volusia Counties, Florida

November, 2014



BEYOND the
ULTIMATE

HNTB Corporation
610 Crescent Executive Court
Suite 400
Lake Mary, FL 32746



TABLE OF CONTENTS

- 1.0 Introduction3**
 - 1.1 Background3
 - 1.2 Purpose and Need.....3
- 2.0 Design Criteria and Standards4**
- 3.0 Preliminary Design Concepts4**
 - 3.1 Alternative 1.....4
 - 3.2 Alternative 2.....5
 - 3.3 Alternative 3.....6
 - 3.4 Alternative 4.....6
- 4.0 Construction Cost Estimates7**
- APPENDICES.....9**
- APPENDIX A10**
- CONCEPT PLANS10**
- APPENDIX B11**
- CONCEPT DESIGN CALCULATIONS11**

1.0 Introduction

The Florida Department of Transportation (FDOT) is conducting an update of the PD&E studies for the extension of proposed express lanes for SR 400 (I-4). As part of this update, FDOT is developing concepts for the potential to provide a multi-use pathway across the St. Johns River to bridge the Seminole/Volusia gap between the proposed Sanford Riverwalk in Seminole County and the Florida Coast-to-Coast trail network located in Volusia County. The consultant team has suggested the pathway could take one of four forms:

- **Alternative 1** – Multi-Use path along the Centerline of I-4, supported by additional substructure elements retrofitted to the existing piers
- **Alternative 2** – Multi-Use path along the Eastern side of I-4, carried by new structural system retrofitted the existing bridge piers
- **Alternative 3** – New multi-use cable stay bridge to the East of and parallel to the existing US 17-92 bridge over the St. Johns River
- **Alternative 4** – Additional interior widening of Eastbound (EB) I-4, allowing placement of multi-use pathway on Eastern-most side of existing bridge deck

1.1 Background

In order to minimize the impacts of this project on the environment, FDOT is committed to the pursuing solutions which avoid foundation construction within the St. Johns River. The consultant team has reviewed as-built plans, design calculations, and pile driving records for the existing bridge carrying I-4 over the St. Johns River. Based on these reviews, the as-built condition of the bridges provides structural reserve capacity to accommodate a future widening and multi-use path.

1.2 Purpose and Need

The purpose of this study is to outline feasible alternatives for providing a multi-use pathway over the St. Johns River connecting Seminole and Volusia Counties to connect to the Coast-to-Coast trail network. This study provides FDOT necessary feasibility analysis and cost data for multi-use bicycle/pedestrian pathway alternatives. The current plan for the St. Johns River multi-use facility includes utilizing a combination of existing and proposed substructures carrying I-4 over the St. Johns River.

2.0 Design Criteria and Standards

The following is a list of pertinent design specifications, standards, and guidelines which were utilized to develop the conceptual bridge designs, and which will be required for final bridge design.

- AASHTO Guide for the Development of Bicycle Facilities
- AASHTO Guide for the Planning, Design, and Operation of Pedestrian Facilities
- FDOT Pedestrian Facilities
- AAHSTO LRFD Bridge Design Specifications
- AASHTO LRFD Guide Specifications for Design of Pedestrian Bridges
- FDOT Structures Design Guidelines

Specific note should be made of the following decisions with regard to geometric and structural design criteria for the project.

- Concepts were developed to allow access for a H10 design truck on the multi-use pathway.
- The standard rail-to-rail horizontal clearance of 10 ft. has been increased to 14 ft. to allow vehicle access without overly restricting multi-use traffic.
- Factored pile loads for proposed alternatives are not to exceed the as-built nominal bearing capacity multiplied by a ϕ -factor of 0.65.
- Concepts were developed to maintain the current minimum U.S. Coast Guard (USCG) navigation clearance of 45 ft. above the normal high water elevation.
- ADA-compliant access ramps will be installed at each end of the bridge.
- Revised vessel collision analyses should be carried out for preferred alternatives.

3.0 Preliminary Design Concepts

The concept plans for this project, included in Appendix A, are provided for all of the alternatives discussed in Section 3.0 of this report. The following section describes general design criteria and probable impacts applicable to each alternative. It should be noted, that all alternatives have potential to impact the St. Johns River during construction. Alternatives 1, 2, and 4 require column construction and beam erection over the water. Alternative 3 requires foundation construction and stay tower erection in close proximity to the river banks.

3.1 Alternative 1

This alternative consists of installing a pathway along the centerline of I-4. For sections of the pathway over land, new single-column piers would be installed to carry the pathway. Over the river, the EB and WB piers would be joined by extending each pier cap towards the center, forming a multi-column straddle pier. The following is a list of parameters that have been evaluated in assessing the feasibility of Alternative 1

1. Future Transit Corridor – The alignment of this alternative conflicts with area reserved for future transit corridor.
2. Structural Evaluation of River Pier Foundations – The current river pier foundations have enough reserve capacity to support this alternative.
3. Perception of User – This alternative places users in the middle of high-speed traffic traveling in opposing directions. Transparent barriers, similar to that shown in Figure 1, could be employed to shield users from buffering effects of traffic while allowing visibility of the surround area, but the visual stigma of high speed traffic could make users feel uneasy.
4. Aesthetics – This alternative would maintain the existing aesthetic of the area.

Figure 1: Representative Transparent Barrier



3.2 Alternative 2

This alternative consists of erecting a structural system anchored to the existing piers and supporting a separate superstructure for carrying multi-use traffic. The structural system would likely consist of rolled structural steel sections.

1. Future Transit Corridor – The alignment of this alternative preserves the area reserved for future transit corridor. However, this alternative would require additional Right-of-Way to the Eastern side of I-4 over St. Johns River near each bank of the river.
2. Structural Evaluation of River Pier Foundations – The river pier foundations have enough reserve capacity to support this alternative.
3. Perception of User – This alternative provides superstructure separation from I-4. This lends to an increase in perceived safety since users will only be in proximity to a single direction of traffic. It also provides more scenic views of Lake Monroe to the East.
4. Aesthetics – Without additional aesthetic treatment to the substructure frame work, the aesthetic value of this alternative would slightly degrade the aesthetics of the current bridge over St. Johns River.

3.3 Alternative 3

This alternative consists of constructing a new cable-stay, long-span multi-use bridge nearly parallel to the alignment of US-17-92 over St. Johns River. The bridge would span from bank to bank to avoid constructing foundations in the environmentally sensitive river. To achieve this, the main span would be approximately 700 ft.

1. Future Transit Corridor – The alignment of this alternative preserves the area reserved for future transit corridor.
2. Structural Evaluation of River Pier Foundations – The bridge would consist of a single 700 ft. span that clears the river from bank to bank. No foundation work would be required in the river.
3. Perception of User – This alternative provides higher levels of perceived safety being located outside of a limited-access right-of-way. In addition, it offers a better user experience as users traverse a signature bridge. This alternative offers less scenic experience since it is located between 2 bridges and way from Lake Monroe.
4. Aesthetics – This alternative provides a high-level of aesthetics to the area. The signature bridge would likely attract more regular use and it serves as a visually pleasing landmark to users of the surrounding trail network as well as a gateway between Seminole and Volusia counties.

Figure 2: Representative Cable-Stayed Multi-Use Bridge



3.4 Alternative 4

This alternative consists of increasing the currently preferred widening of I-4 EB and shifting EB traffic approximately 14 ft. to the West, thereby providing approximately 14 ft. of existing deck along the

Eastern edge of the bridge available for multi-use traffic. The substructure elements would be similar to Alternative 1.

1. Future Transit Corridor – The alignment of this alternative preserves the area reserved for future transit corridor. However, the width of the corridor must be reduced to 34 ft.
2. Structural Evaluation of River Pier Foundations – The existing river pier foundations have enough reserve capacity to support this alternative.
3. Perception of User – This alternative provides a better level of perceived safety than Alternative 1. Pier protection barriers, or similar, could be employed to separate the multi-use traffic from vehicular traffic. This alternative provides multi-use pathway users scenic views of Lake Monroe to the East.
4. Aesthetics – This alternative provides a structure which blends in with existing constructed environment.

Figure 3: Representative Multi-Use Pathway Along Edge of Bridge



4.0 Construction Cost Estimates

The estimated construction costs included in this report are solely applicable to bridge construction and include items such as staging, work access, and false work. This cost data does not include acquisition of right-of-way, widening of I-4 over St. Johns River, approach paths and/or structures, or other improvements not related to the bridge construction. Due to the high-level nature of this feasibility study, the construction costs provided should be coupled with additional costs due to project overhead

costs such as design, permitting, and construction contingency, to avoid underfunding the project in the planning stages.

A summary of construction costs is shown in Table 1. The estimated square foot bridge construction costs are developed using FDOT BDR Cost Estimating methodology in tandem with data from representative conventional and long-span specialty projects.

Table 2: Estimated Bridge Construction Costs

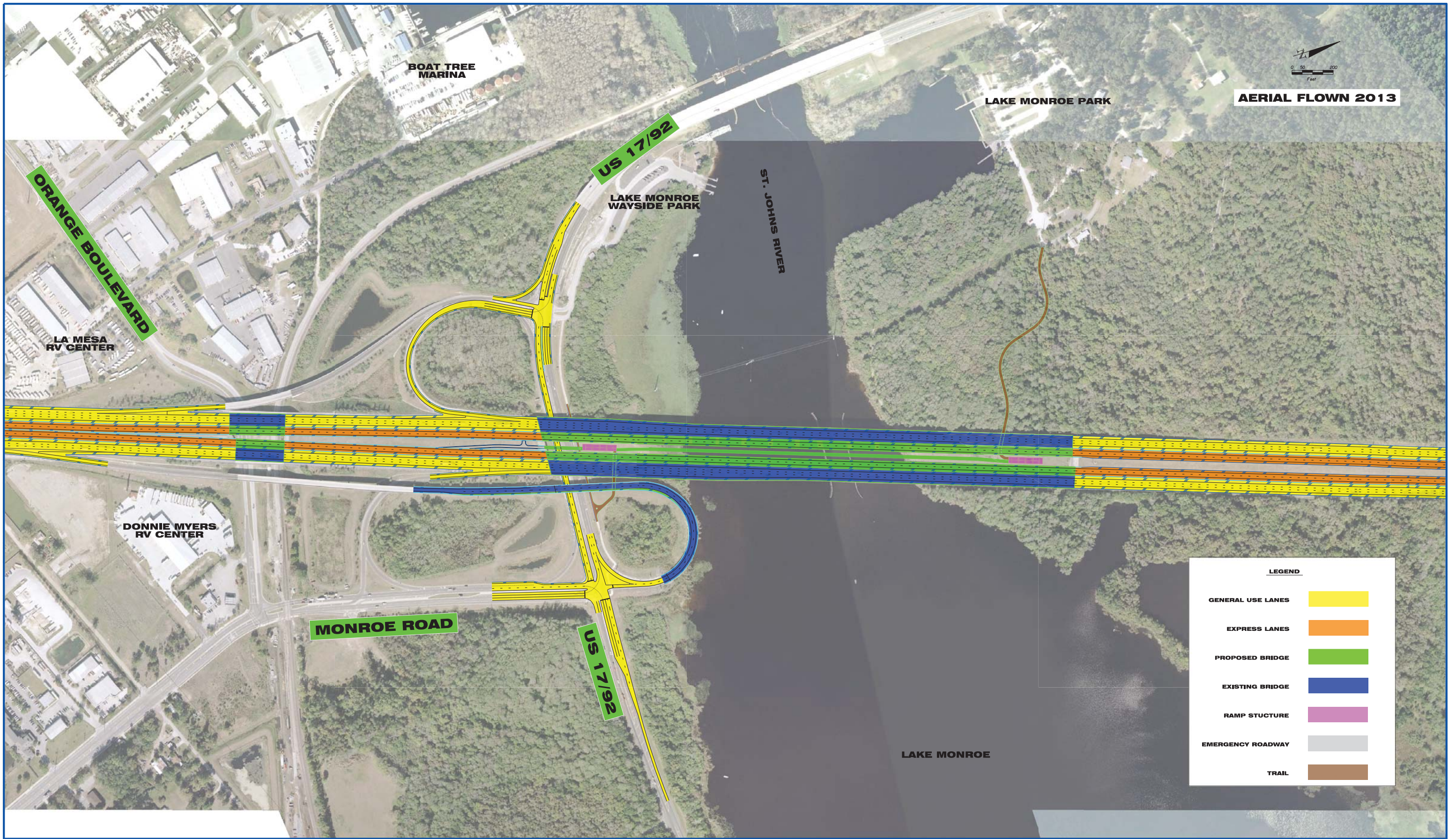
Facility	Bridge Area (sq. ft)	Bridge Length (ft)	Max. Span Length (ft)	Deck Width (ft)	Estimated Construction Cost (\$/sq. ft)	Estimated Construction Cost (M)
Alternative 1 - Central Alignment	33,334	2500	142.33	15	\$97	\$3.3M
Alternative 2 – Bracketed Structure	33,334	2500	142.33	15	\$159	\$5.2M
Alternative 3 – Cable Stay	18,000	1200	700	15	\$380	\$6.8M
Alternative 4 - Widening	33,334	2500	142.33	14.1	\$81	\$2.5M

APPENDICES






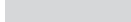

APPENDIX A
CONCEPT PLANS

APPENDIX B
CONCEPT DESIGN CALCULATIONS

APPENDIX A
CONCEPT PLANS



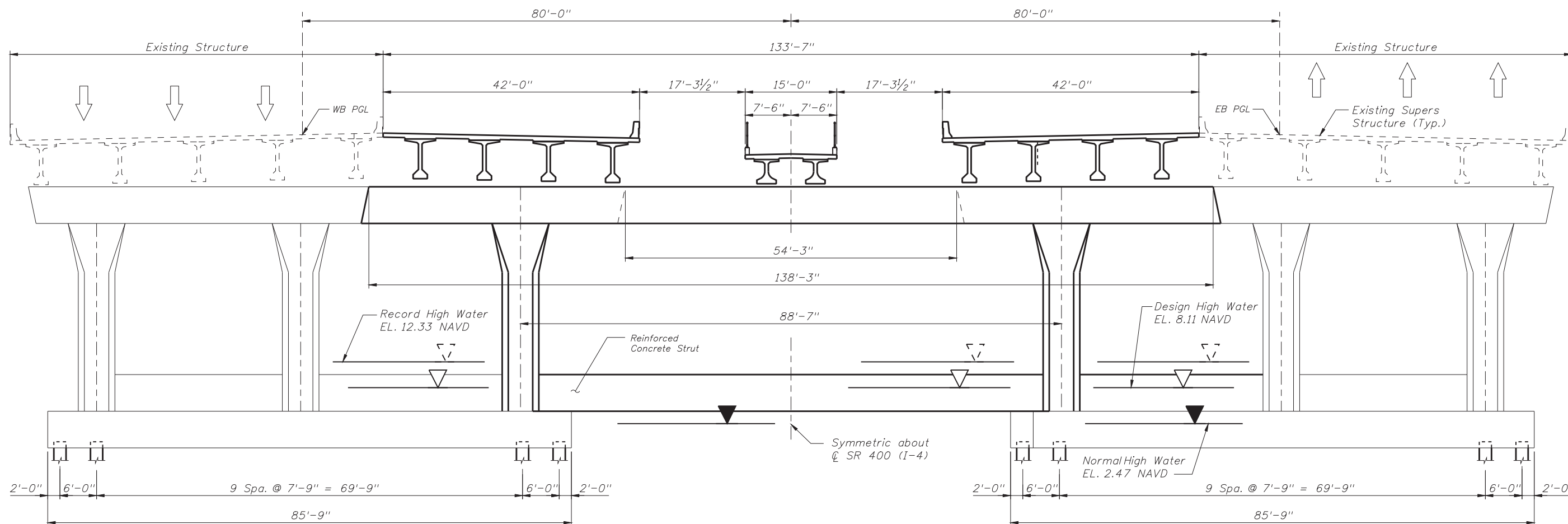
AERIAL FLOWN 2013

LEGEND	
GENERAL USE LANES	
EXPRESS LANES	
PROPOSED BRIDGE	
EXISTING BRIDGE	
RAMP STRUCTURE	
EMERGENCY ROADWAY	
TRAIL	



**SR-400 (I-4) Segment 3
ST. JOHNS RIVER PEDESTRIAN BRIDGE
ALTERNATIVE 1**

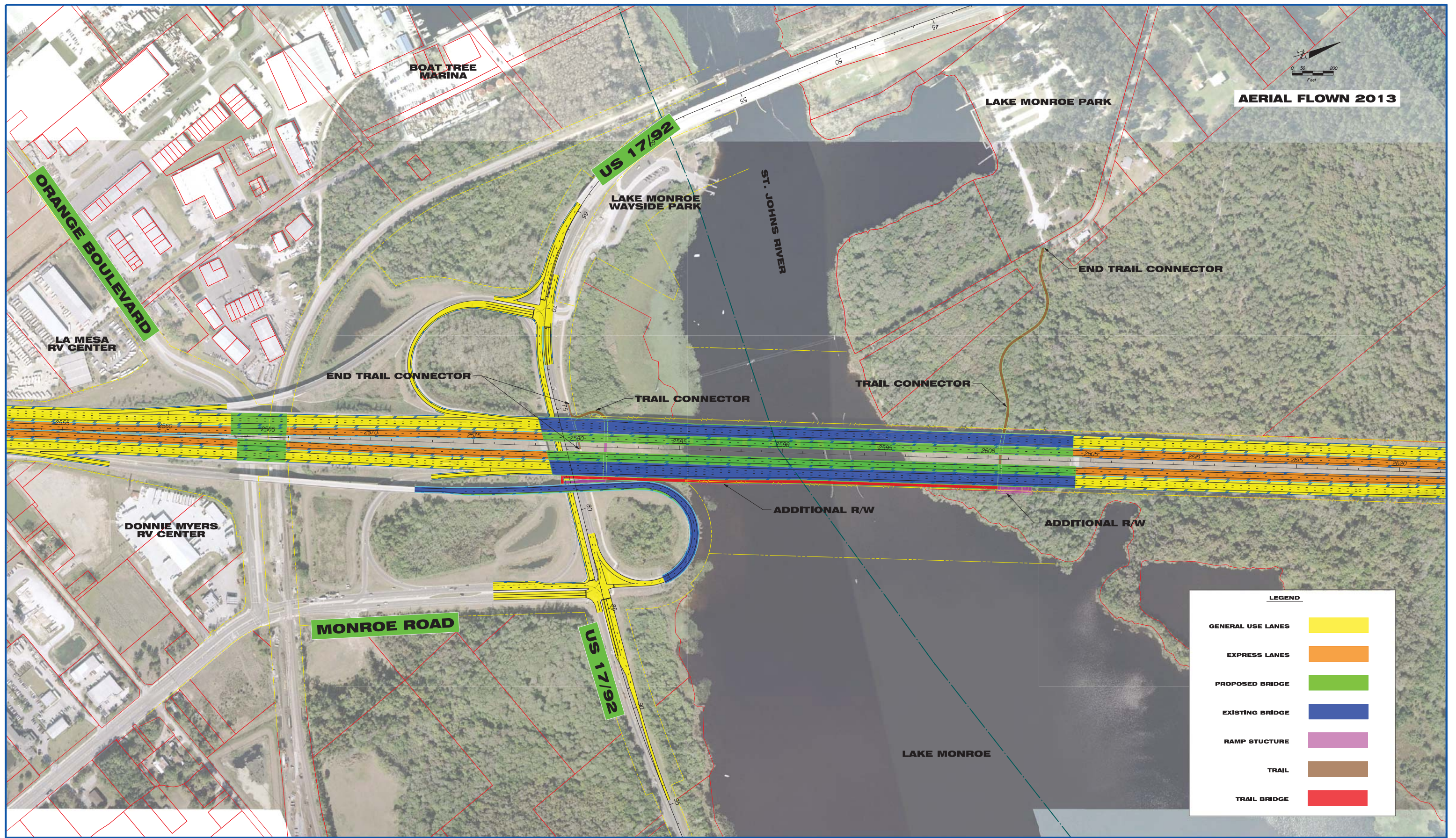




ALTERNATIVE 1
TYPICAL RIVER PIER ELEVATION - PIER 11 EB & WB

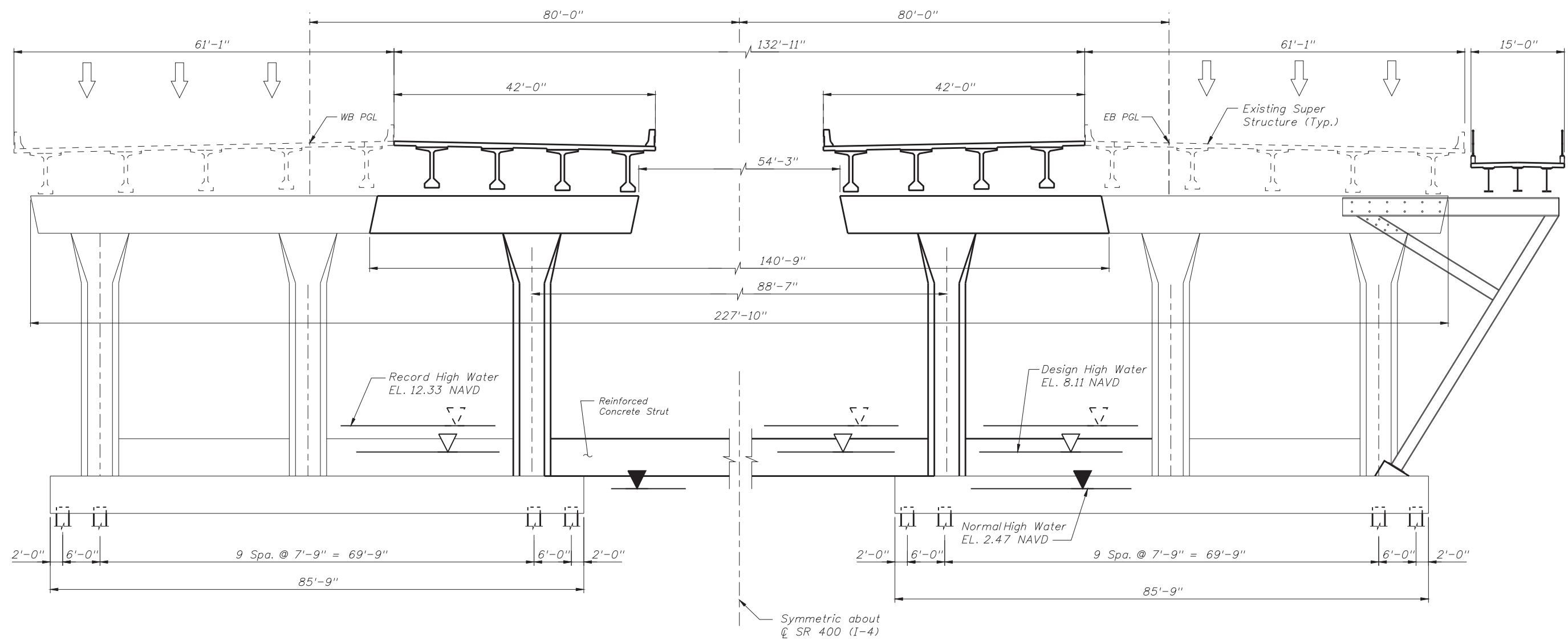
BRIDGE NOS. 790196 & 790197

REVISIONS						ENGINEER OF RECORD: HNTB CORPORATION 610 CRESCENT EXECUTIVE CT SUITE 400 LAKE MARY, FL 32746 (407) 805-0355 CERT. OF AUTH. NO. 6500 COREY A. MARCHMAN, P.E. NO. 75452	FLORIDA DEPARTMENT OF TRANSPORTATION			I-4 PD&E STUDY TYPICAL SECTIONS SEGMENT 4	SHEET NO. 9 OF 13
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						400	SEMINOLE VOLUSIA	432100-1-22-01			



**SR-400 (I-4) Segment 3
ST. JOHNS RIVER PEDESTRIAN BRIDGE
ALTERNATIVE 2**

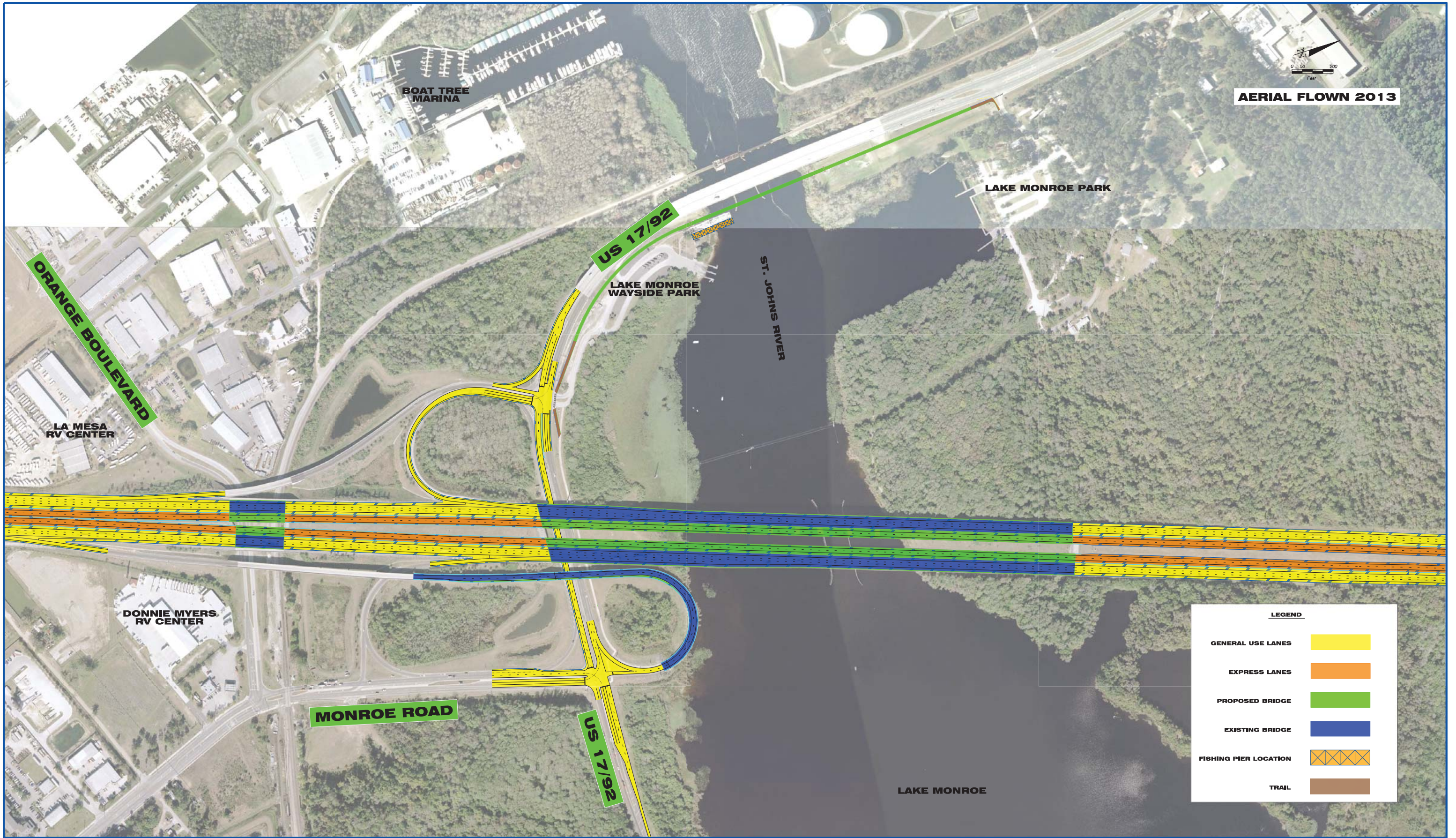




ALTERNATIVE 2
TYPICAL RIVER PIER ELEVATION - PIER 11 WB

BRIDGE NOS. 790196 & 790197

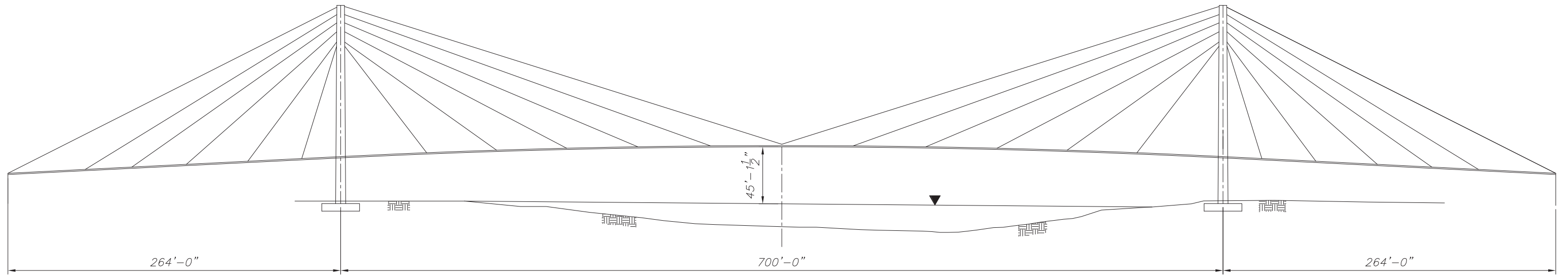
REVISIONS						ENGINEER OF RECORD: HNTB CORPORATION 610 CRESCENT EXECUTIVE CT SUITE 400 LAKE MARY, FL 32746 (407) 805-0355 CERT. OF AUTH. NO. 6500 COREY A. MARCHMAN, P.E. NO. 75452	FLORIDA DEPARTMENT OF TRANSPORTATION			I-4 PD&E STUDY TYPICAL SECTIONS SEGMENT 4	SHEET NO. 10 OF 13
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						400	SEMINOLE VOLUSIA	432100-1-22-01			



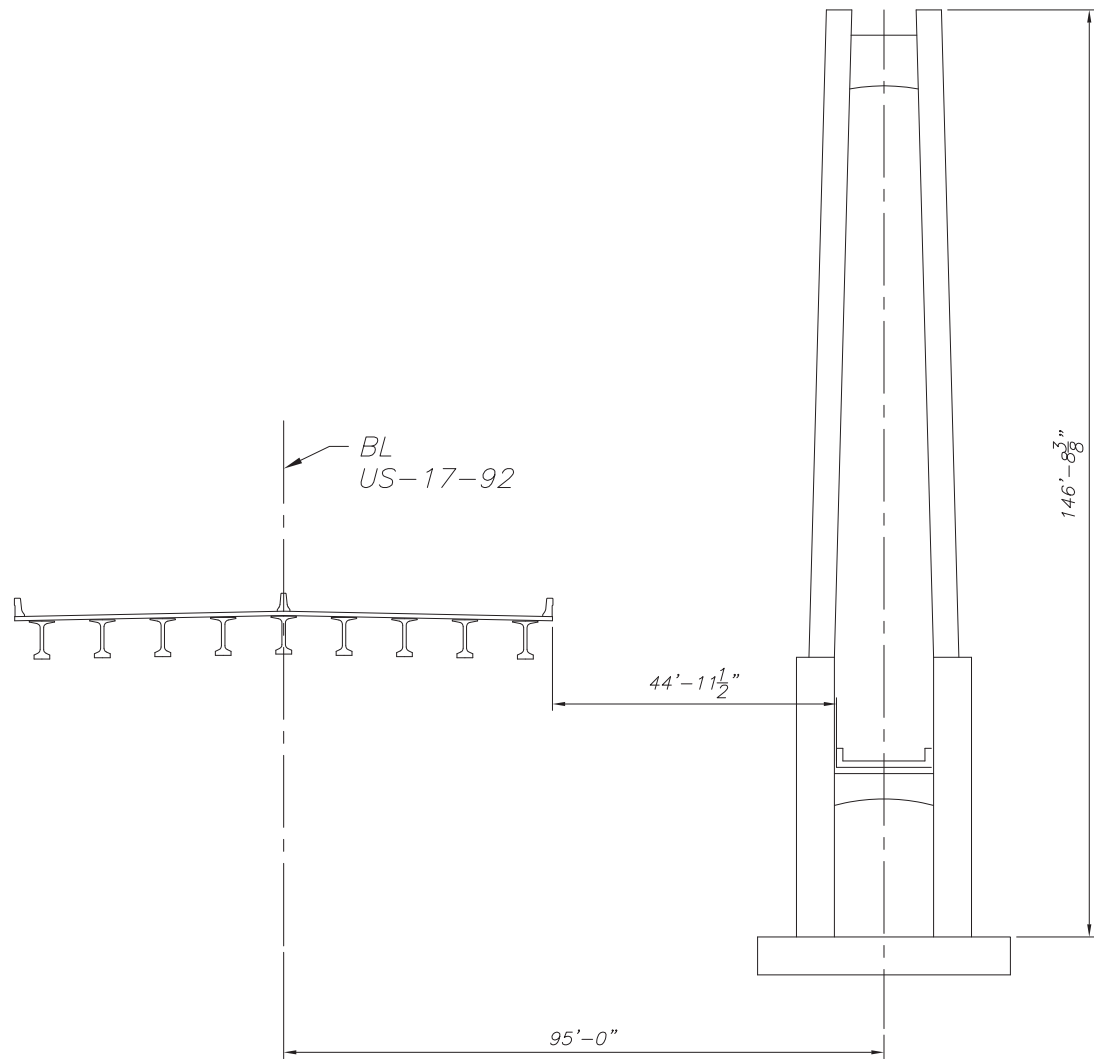
AERIAL FLOWN 2013

**SR-400 (I-4) Segment 3
ST. JOHNS RIVER PEDESTRIAN BRIDGE
ALTERNATIVE 3**



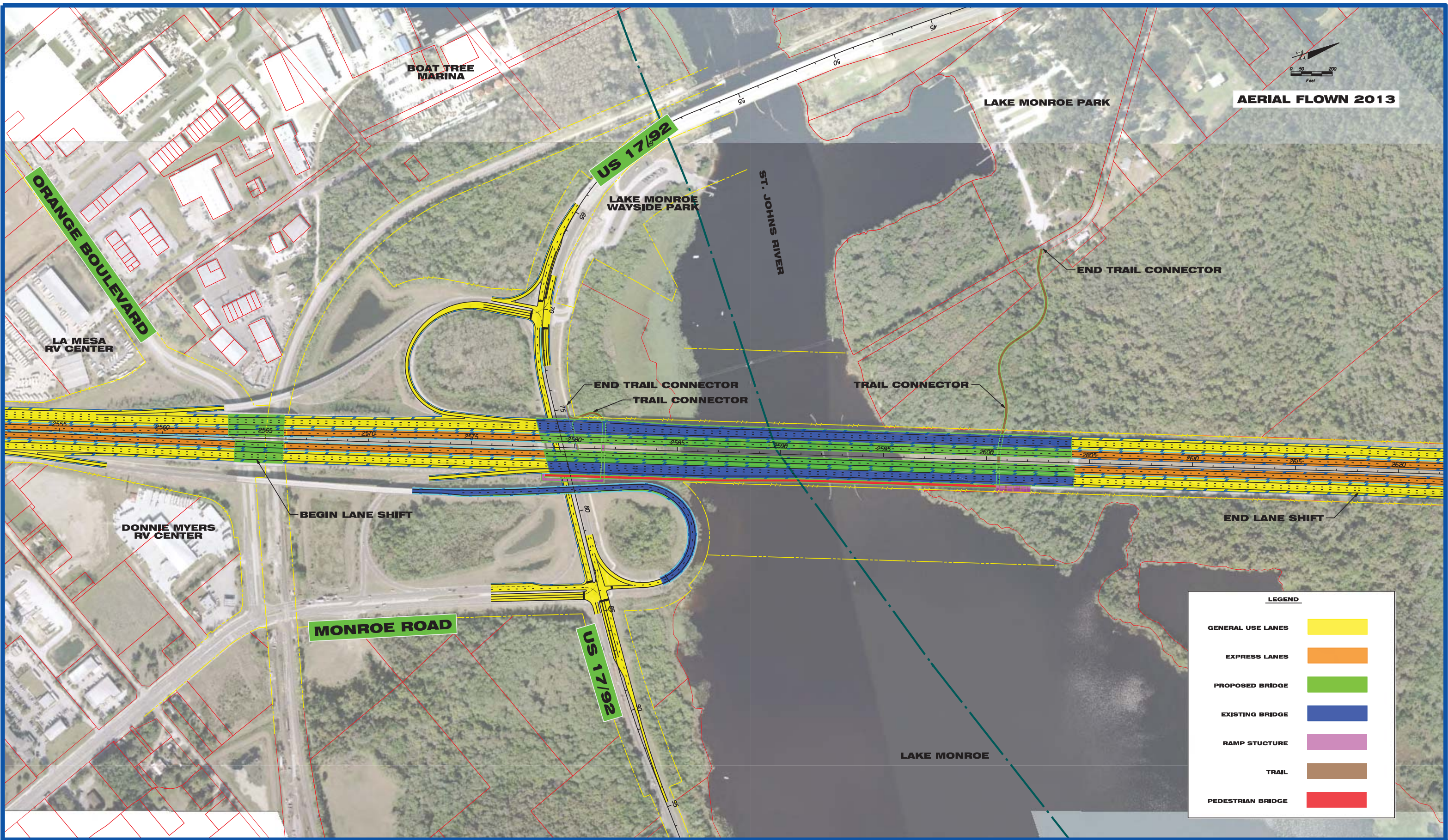








*ALTERNATIVE 3
BRIDGE ELEVATION*



*ALTERNATIVE 3
TYPICAL STAY TOWER PIER ELEVATION*

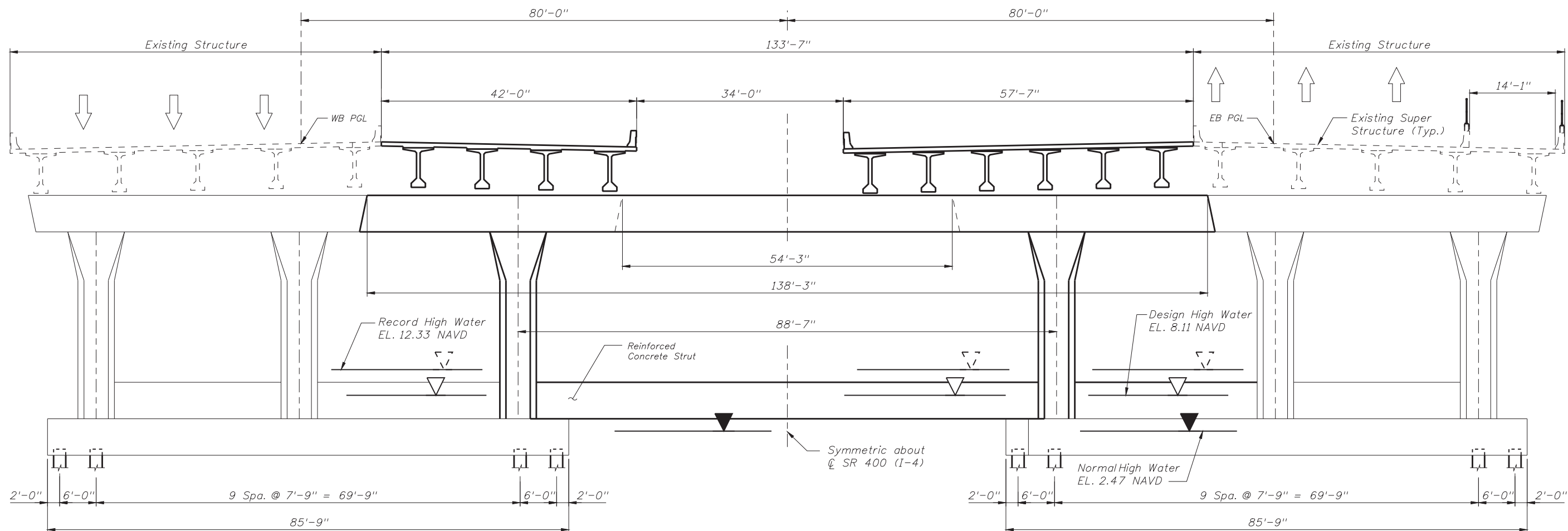
AERIAL FLOWN 2013



LEGEND	
GENERAL USE LANES	
EXPRESS LANES	
PROPOSED BRIDGE	
EXISTING BRIDGE	
RAMP STRUCTURE	
TRAIL	
PEDESTRIAN BRIDGE	

**SR-400 (I-4) Segment 3
ST. JOHNS RIVER PEDESTRIAN BRIDGE
ALTERNATIVE 4**

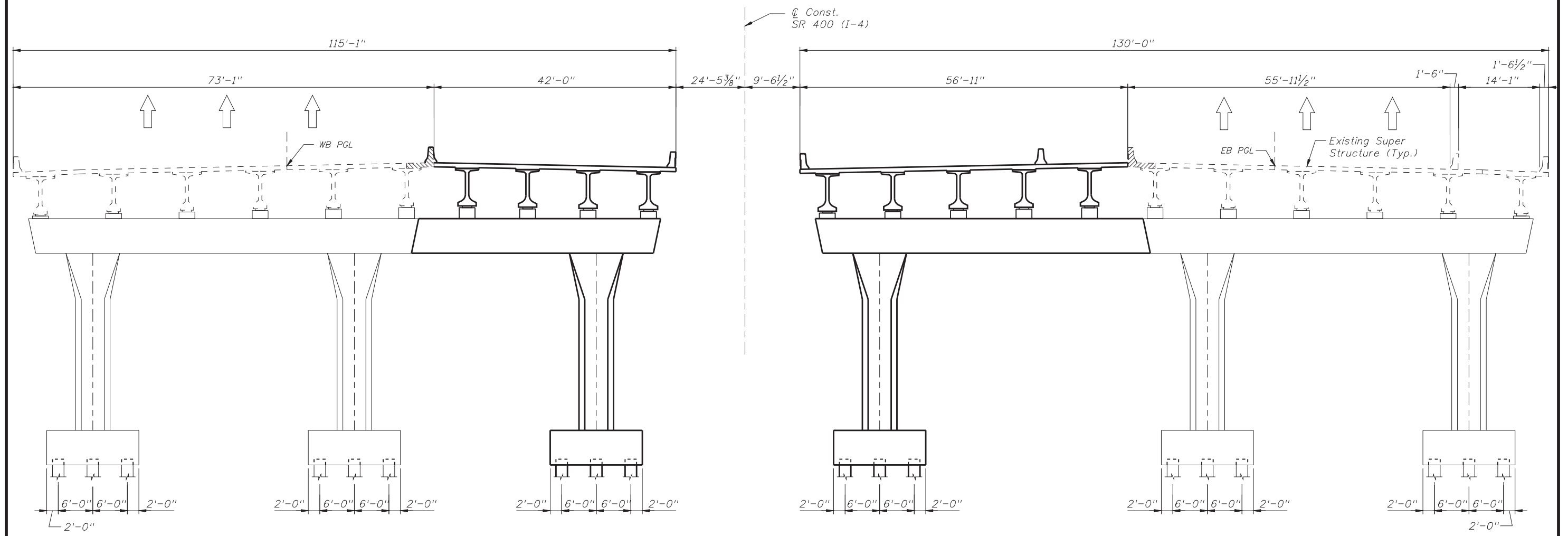




ALTERNATIVE 4
TYPICAL RIVER PIER ELEVATION - PIER 11 EB & WB

BRIDGE NOS. 790196 & 790197

REVISIONS						ENGINEER OF RECORD: HNTB CORPORATION 610 CRESCENT EXECUTIVE CT SUITE 400 LAKE MARY, FL 32746 (407) 805-0355 CERT. OF AUTH. NO. 6500 COREY A. MARCHMAN, P.E. NO. 75452	FLORIDA DEPARTMENT OF TRANSPORTATION			I-4 PD&E STUDY TYPICAL SECTIONS SEGMENT 4	SHEET NO. 12 OF 13
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						400	SEMINOLE VOLUSIA	432100-1-22-01			



ALTERNATIVE 4
TYPICAL LAND PIER ELEVATION - PIER 4 EB & WB

BRIDGE NOS. 790196 & 790197

REVISIONS						ENGINEER OF RECORD: HNTB CORPORATION 610 CRESCENT EXECUTIVE CT SUITE 400 LAKE MARY, FL 32746 (407) 805-0355 CERT. OF AUTH. NO. 6500 COREY A. MARCHMAN, P.E. NO. 75452	FLORIDA DEPARTMENT OF TRANSPORTATION			I-4 PD&E STUDY TYPICAL SECTIONS SEGMENT 4	SHEET NO. 13 OF 13
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						400	SEMINOLE VOLUSIA	432100-1-22-01			

APPENDIX B
CONCEPT DESIGN CALCULATIONS

I-4 OVER ST. JOHNS RIVER
PEDESTRIAN BRIDGE CONCEPT STUDY

WIDENING SUPERSTRUCTURE ANALYSIS



Sheet #	1
Job #	

Program:	LEAP® CONSPAN® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM	
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 1984 - 2012	Date	Sept/9/2013	
		www.bentley.com Phone: 1-800-778-4277	Checked		
File Name:	Span11EB_Modified Spacing.csl			Date	

PROJECT DATA

Project:	I4 Over St. John's River Bridge
Designer:	KSM
Date:	Sept/9/2013
Checked By:	
Date Checked:	
User job number:	
State:	FL, State Job #:
State:	Florida
Specification:	
Design Code:	AASHTO LRFD - [6th Edition, 2012]
Units:	US
Span Type:	Simple Span
Flared Girder:	Yes
File Name:	\\Lkwm00\pmwork3\Jobs\59219 - I4 SAMR\TECHPROD\43210012201\Segment 4\struct\eng_data\I-4 Over St. Johns River\01 Alternative 1 - Interior Widening\1. Superstructure\Span 11EB\Span11EB_Modified Spacing.csl



Sheet #	2
Job #	

Program:	LEAP® CONSPAN® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM	
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 1984 - 2012	Date	Sept/9/2013	
		www.bentley.com Phone: 1-800-778-4277	Checked		
File Name:	Span11EB_Modified Spacing.csl			Date	

GEOMETRY DATA**ALIGNMENT DATA**

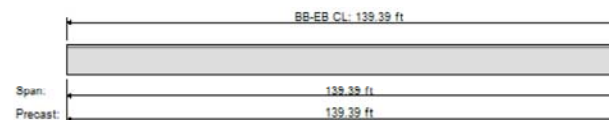
Bridge Alignment: ALG01
Beginning Station: 0+00.0000 ft

Seg	Shape	StartDirection	EndStation ft	Radius ft	Sense
1	Tangent	N 90 00 00.00 E	2+00.0000	-	-

BRIDGE LAYOUT

Overall Width (ft)	103.083
Left curb (ft)	1.542
Right curb (ft)	1.542
Curb-to-curb width (ft)	100.000
Number of spans	1
Number of lanes	8
Lane width (ft)	12.000
Eff Deck thick (in)	8.500
Sacrificial thick (in)	0.000
Haunch thickness (in)	1.000
Haunch width (in)	60.000
Bridge c/s.MI(lxx) (in4)	22520988.00

Component	RefName	Station ft	Bearing	Deck Width ft	Deck Offset ft
Begin Bridge		0+00.0000	N 0 00 00.00 W	103.0830	76.0000
Abutment	AB01	0+00.0000	N 0 00 00.00 W	103.0830	76.0000
Abutment	AB02	1+39.3907	N 14 09 12.96 W	103.0830	76.0000
End Bridge		1+39.3907	N 14 09 12.96 W	103.0830	76.0000



Bridge elevation

BEAM DATA

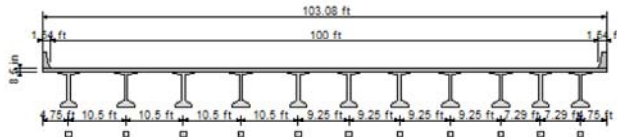
No	ID	Length ft	Loc-start ft	Loc-end ft	Area in2	MI(lxx) in4	Height in	Yb in	B-topg in	B-trib ft
----	----	--------------	-----------------	---------------	-------------	----------------	--------------	----------	--------------	--------------



Sheet # 3
Job #

Program:	LEAP® CONSPAN® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 1984 - 2012	Date	Sept/9/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Span11EB_Modified Spacing.csl			Date

No	ID	Length ft	Loc-start ft	Loc-end ft	Area in2	MI(Ixx) in4	Height in	Yb in	B-topg in	B-trib ft
1	FIB-78	127.575	3.799	1.096	1100.6	904567.0	78.00	34.60	48.00	10.000
2	FIB-78	130.223	10.500	10.829	1100.6	904567.0	78.00	34.60	48.00	10.500
3	FIB-78	132.871	10.500	10.829	1100.6	904567.0	78.00	34.60	48.00	10.500
4	FIB-78	135.519	10.500	10.829	1100.6	904567.0	78.00	34.60	48.00	10.500
5	FIB-78	138.167	10.500	10.829	1100.6	904567.0	78.00	34.60	48.00	9.875
6	FIB-78	140.499	9.250	9.540	1100.6	904567.0	78.00	34.60	48.00	9.250
7	FIB-78	142.832	9.250	9.540	1100.6	904567.0	78.00	34.60	48.00	9.250
8	FIB-78	145.165	9.250	9.540	1100.6	904567.0	78.00	34.60	48.00	9.250
9	FIB-78	147.497	9.250	9.540	1100.6	904567.0	78.00	34.60	48.00	8.271
10	FIB-78	149.336	7.292	7.520	1100.6	904567.0	78.00	34.60	48.00	7.292
11	FIB-78	151.175	7.292	7.520	1100.6	904567.0	78.00	34.60	48.00	8.395



Bridge cross section

MATERIAL DATA - Project Level

As defined in Material Tab. For beam level properties look at Beam Specific output.

CONCRETE PROPERTIES

	Precast Release	Precast Final	C.I.P
f _c (ksi)	6.000	7.500	5.500
W _c (pcf)	150.000	150.000	150.000
E _c (ksi)	4016.840	4490.960	3845.830
K1	0.900	0.900	0.900
Thermal coeff. (1/°F)	0.00000600		

STRAND AND REBAR PROPERTIES

PRESTRESSED STEEL:

6/10-270K-LL, Low relaxation strands
Depressed at 0.40L
Strand Diameter = 0.600 in



Sheet # 4
Job #

Program:	LEAP® CONSPAN® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 1984 - 2012	Date	Sept/9/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Span11EB_Modified Spacing.csl			Date

Tensile Strength(f_{pu}) = 270.0 ksi
Use transformed strand and rebar: Strand Only
REINFORCING STEEL:
Tension/Shear steel: f_y = 60.0 ksi E_s = 29000 ksi f_s = 24.0 ksi



Sheet # 5

Job #

Program: LEAP® CONSPAN® V8i (SELECTseries 5) SE Client Licenses Designed KSM

Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 1984 - 2012 Date Sept/9/2013

www.bentley.com Phone: 1-800-778-4277 Checked

File Name: Span11EB_Modified Spacing.csl Date

LOADS DATA

Loads generated using Permanent Load Wizard: YES

Left Barrier Weight, klf	0.000
Right Barrier Weight, klf	0.000
Left Curb Weight, klf	0.420
Right Curb Weight, klf	0.420
Left Sidewalk, klf	0.000
Right Sidewalk, klf	0.000
Future Wearing Surface, ksf	0.000
Sacrificial Wearing Surface, in	0.000
Stay in Place Deck Forms, klf	0.000

DEAD LOADS ON PRECAST

UNITS: (Point: kips, Location: ft, Line: klf, Trapez: klf)

Span	Beam	DC/DW	Type	Mag.1	Loc.1	Mag.2	Loc.2	Description
1	1	DC	Line	0.125	0.000	0.125	127.575	Add'l Build-Up
1	1	DC	Line	0.005	0.000	0.005	127.575	SIP
1	2	DC	Line	0.125	0.000	0.125	130.223	Add'l Build-Up
1	2	DC	Line	0.110	0.000	0.110	130.223	SIP
1	3	DC	Line	0.125	0.000	0.125	132.871	Add'l Build-Up
1	3	DC	Line	0.110	0.000	0.110	132.871	SIP
1	4	DC	Line	0.125	0.000	0.125	135.519	Add'l Build-Up
1	4	DC	Line	0.110	0.000	0.110	135.519	SIP
1	5	DC	Line	0.125	0.000	0.125	138.167	Add'l Build-Up
1	5	DC	Line	0.098	0.000	0.098	138.167	SIP
1	6	DC	Line	0.125	0.000	0.125	140.499	Add'l Build-Up
1	6	DC	Line	0.085	0.000	0.085	140.499	SIP
1	7	DC	Line	0.125	0.000	0.125	142.832	Add'l Build-Up
1	7	DC	Line	0.085	0.000	0.085	142.832	SIP
1	8	DC	Line	0.125	0.000	0.125	145.165	Add'l Build-Up
1	8	DC	Line	0.085	0.000	0.085	145.165	SIP
1	9	DC	Line	0.125	0.000	0.125	147.497	Add'l Build-Up
1	9	DC	Line	0.065	0.000	0.065	147.497	SIP
1	10	DC	Line	0.125	0.000	0.125	149.336	Add'l Build-Up
1	10	DC	Line	0.046	0.000	0.046	149.336	SIP
1	11	DC	Line	0.125	0.000	0.125	151.175	Add'l Build-Up
1	11	DC	Line	0.043	0.000	0.043	151.175	SIP

DIAPHRAGM LOADS - using Wizard

Span	Magnitude (plf)	Location (ft)	Skew (deg)
1	1675.000	1.000	0.000
1	1675.000	120.000	-14.150



Sheet # 6

Job #

Program: LEAP® CONSPAN® V8i (SELECTseries 5) SE Client Licenses Designed KSM

Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 1984 - 2012 Date Sept/9/2013

www.bentley.com Phone: 1-800-778-4277 Checked

File Name: Span11EB_Modified Spacing.csl Date

Span	Beam	Load (kips)	Location (ft)
1	1	8.305	1.000
1	1	8.565	127.364
1	2	16.610	1.000
1	2	17.130	130.011
1	3	16.610	1.000
1	3	17.130	132.658
1	4	16.610	1.000
1	4	17.130	135.305
1	5	15.564	1.000
1	5	16.051	137.952
1	6	14.517	1.000
1	6	14.971	140.284
1	7	14.517	1.000
1	7	14.971	142.616
1	8	14.517	1.000
1	8	14.971	144.948
1	9	12.877	1.000
1	9	13.279	147.281
1	10	11.236	1.000
1	10	11.588	149.119
1	11	5.618	1.000
1	11	5.794	150.957

DEAD LOADS ON COMPOSITE

UNITS: (Point: kips, Location: ft, Line: klf, Trapez: klf, Area: ksf, Width: ft)

Span	DC/DW	Type	Mag.1	Loc.1/Width	Mag.2	Loc.2	Description
1	DC	Line	0.420	0.000	0.420	127.575	Left Curb Weight
1	DC	Line	0.420	0.000	0.420	127.575	Right Curb Weight

TEMPERATURE LOADS - NONE**LIVE LOADS**

Live load deflection: not included.

ID	Type
Design Lane	Design Lane
Design Tandem	Design Tandem
Design Truck	Design Truck

Pedestrian Load - NONE



		Sheet #	7
		Job #	
Program:	LEAP® CONSPAN® V8i (SELECTseries 5)	SE Client Licenses	Designed KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 1984 - 2012	Date Sept/9/2013
		www.bentley.com	Phone: 1-800-778-4277
File Name:	Span11EB_Modified Spacing.csl	Checked	Date



		Sheet #	8
		Job #	
Program:	LEAP® CONSPAN® V8i (SELECTseries 5)	SE Client Licenses	Designed KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 1984 - 2012	Date Sept/9/2013
		www.bentley.com	Phone: 1-800-778-4277
File Name:	Span11EB_Modified Spacing.csl	Checked	Date

ANALYSIS DATA

ANALYSIS PARAMETERS DATA

Truck impact:	1.330
Lane impact:	1.000
Strength II impact:	1.330
Fatigue impact:	1.150

DISTRIBUTION FACTORS (Art. 4.6.2.2):

Is Span Post-tensioned:	NO
Include Rigid Cross Section Assumption (Art. 4.6.2.2.2d):	YES
ADTT (Average Daily Truck Traffic) :	5000
Percent of the specified force effect :	1.00

NOTE: Beam specific dead and live load DFs are printed in beam level reports.

LOAD FACTORS: (Table 3.4.1-1 & 3.4.1-2)

	Live	DC(max)	DC(min)	DW(max)	DW(min)
Service I:	1.00	1.00	-	1.00	-
Service III:	0.80	1.00	-	1.00	-
Strength I:	1.75	1.25	0.90	1.50	0.65
Fatigue I:	1.50	-	-	-	-

Ductility Factor:	1.00
Redundancy Factor:	1.00
Importance Factor:	1.00



Sheet # 9

Job #

Program: LEAP® CONSPAN® V8i (SELECTseries 5) SE Client Licenses Designed KSM

Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 1984 - 2012 Date Sept/9/2013

www.bentley.com Phone: 1-800-778-4277 Checked

File Name: Span11EB_Modified Spacing.csl Date

PROJECT DESIGN PARAMETERS**MULTIPLIERS:**

Trans len mult:	Bonded	1.00
	Debonded	1.00
Dev len mult:	Bonded	1.60
	Debonded	2.00

Camber & Deflection Multiplier (PCI ref.)

	Erection	Final
Prestress:	1.80	2.20
Self. Wt.:	1.85	2.40
Deck + Haunch:		2.30
Diaphragm:		3.00
DL-Prec.:		3.00
DL-Comp.:		3.00

MOMENT AND SHEAR PROVISIONS:

Ultimate Moment Capacity, Mr-prvd computed:	AASHTO equations
Horizontal Shear, Beam and Slab effects in Vu:	INCLUDED

STRESS LIMITS (Art. 5.9.4):**STRESS LIMITS AT RELEASE BEFORE LOSSES (Using Advanced Settings):**

		PRECAST	
Strength		6.00	ksi
Elasticity		4016.8	ksi
Max comp		3.60	ksi
Outer	15.00 %		
Max tens		-0.23	ksi
Max tens, w/reinf		-0.93	ksi
Center	70.00 %		
Max tens		-0.23	ksi
Max tens, w/reinf		-0.59	ksi

STRESS LIMITS AT FINAL AFTER LOSSES:

	PRECAST	DECK
Strength	7.50 ksi	5.50 ksi
Elasticity	4490.96 ksi	3845.83 ksi

STRESS LIMITS AT FINAL 1 (P/S + DL + LL):

	PRECAST	DECK
Max comp	4.50 ksi	3.30 ksi

STRESS LIMITS AT FINAL 2 (P/S + DL):

Sheet # 10

Job #

Program: LEAP® CONSPAN® V8i (SELECTseries 5) SE Client Licenses Designed KSM

Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 1984 - 2012 Date Sept/9/2013

www.bentley.com Phone: 1-800-778-4277 Checked

File Name: Span11EB_Modified Spacing.csl Date

	PRECAST	DECK
Max comp	3.38 ksi	2.47 ksi

FATIGUE I STRESS LIMITS AT FINAL 3 (50% P/S + 50% DL + F_LL) (Art. 5.5.3.1):

	PRECAST	DECK
Max comp	3.00 ksi	- ksi

SERVICE III (Tension):

	PRECAST	DECK
Max tens	-0.52 ksi	-0.45 ksi

RESISTANCE FACTORS (Art. 5.5.4.2):

Flexure Reinforced	
Compression controlled sections	0.75
Tension controlled sections	0.90
Flexure Prestressed	
Compression controlled sections	0.75
Tension controlled sections	1.00
Shear	0.90

PRESTRESS LOSSES:

Time Dependent Losses, Approximate Method (Art.5.9.5.3)
Days to release = 0.75
Rel. Humid.(RH) = 75.0 %

File: \\krm00\pwork3\Jobs\59219 - 14 SAMR\TECHPRD\43210012201\Segment 4\struct\eng_data\1-4 Over St. Johns River\01 Alternative 1 - Interior W dening\1. Superstructure\Span 11EB
 \Span11EB_RSP\rc_Input_StdSpacing_F1B.tbl.txt 10/2/2014, 4:43:38PM

Export File Generated by CONSPAN v12.1.0
 File Name: \\krm00\pwork3\Jobs\59219 - 14 SAMR\TECHPRD\43210012201\Segment 4\struct\eng_data\1-4 Over St. Johns River\01 Alternative 1 - Interior W dening\1. Superstructure\Span
 \Span11EB_StdFied Spacing.csl

Code: AASHTO LRFD
 Units: US Units, (KIPS, Ft)
 Number of Spans: 1
 Left Curb Width: 1.5417
 Right Curb Width: 1.5417

Span #	Span Length	Number Of Beams	Bridge Width
1	120.2095	11	101.3070 98.8333

Abutment #:	Self Weight
Line 1 Girder 1	: 73.1298
Line 1 Girder 2	: 74.6477
Line 1 Girder 3	: 76.1655
Line 1 Girder 4	: 77.6833
Line 1 Girder 5	: 79.2012
Line 1 Girder 6	: 80.7190
Line 1 Girder 7	: 81.8754
Line 1 Girder 8	: 83.2126
Line 1 Girder 9	: 84.5497
Line 1 Girder 10	: 85.6037
Line 1 Girder 11	: 86.6578
Self - Deck	
Line 1 Girder 1	: 71.7610
Line 1 Girder 2	: 76.7095
Line 1 Girder 3	: 78.2493
Line 1 Girder 4	: 79.8290
Line 1 Girder 5	: 76.8012
Line 1 Girder 6	: 73.4328
Line 1 Girder 7	: 74.6520
Line 1 Girder 8	: 75.8712
Line 1 Girder 9	: 69.4178
Line 1 Girder 10	: 62.5152
Line 1 Girder 11	: 72.1498
Dead Load DC on Precast	
Line 1 Girder 1	: 8.3243
Line 1 Girder 2	: 15.3012
Line 1 Girder 3	: 15.6123
Line 1 Girder 4	: 15.9235
Line 1 Girder 5	: 15.4056
Line 1 Girder 6	: 14.7524
Line 1 Girder 7	: 14.9974
Line 1 Girder 8	: 15.2423
Line 1 Girder 9	: 14.0122
Line 1 Girder 10	: 12.7682
Line 1 Girder 11	: 12.6987
Dead Load DW on Precast	
Line 1 Girder 1	: 0.0000
Line 1 Girder 2	: 0.0000
Line 1 Girder 3	: 0.0000
Line 1 Girder 4	: 0.0000
Line 1 Girder 5	: 0.0000
Line 1 Girder 6	: 0.0000
Line 1 Girder 7	: 0.0000
Line 1 Girder 8	: 0.0000
Line 1 Girder 9	: 0.0000
Line 1 Girder 10	: 0.0000
Line 1 Girder 11	: 0.0000
Dead Load DC on Composite	
Line 1 Girder 1	: 4.5898
Line 1 Girder 2	: 4.5898
Line 1 Girder 3	: 4.5898
Line 1 Girder 4	: 4.5898
Line 1 Girder 5	: 4.5898
Line 1 Girder 6	: 4.5898
Line 1 Girder 7	: 4.5898
Line 1 Girder 8	: 4.5898
Line 1 Girder 9	: 4.5898
Line 1 Girder 10	: 4.5898
Line 1 Girder 11	: 4.5898
Dead Load DW on Composite	
Line 1 Girder 1	: 0.0000
Line 1 Girder 2	: 0.0000
Line 1 Girder 3	: 0.0000
Line 1 Girder 4	: 0.0000
Line 1 Girder 5	: 0.0000
Line 1 Girder 6	: 0.0000
Line 1 Girder 7	: 0.0000
Line 1 Girder 8	: 0.0000
Line 1 Girder 9	: 0.0000
Line 1 Girder 10	: 0.0000
Line 1 Girder 11	: 0.0000
Live Load	
Live Load Max +ve, Truck	: 66.4094
Live Load Max +ve, Lane	: 38.4670

Abutment #:	Self Weight
Line 1 Girder 1	: 73.1298
Line 1 Girder 2	: 74.6477
Line 1 Girder 3	: 76.1655
Line 1 Girder 4	: 77.6833
Line 1 Girder 5	: 79.2012
Line 1 Girder 6	: 80.7190
Line 1 Girder 7	: 81.8754
Line 1 Girder 8	: 83.2126
Line 1 Girder 9	: 84.5497
Line 1 Girder 10	: 85.6037
Line 1 Girder 11	: 86.6578
Self - Deck	
Line 1 Girder 1	: 71.7610
Line 1 Girder 2	: 76.7095
Line 1 Girder 3	: 78.2493
Line 1 Girder 4	: 79.8290
Line 1 Girder 5	: 76.8012
Line 1 Girder 6	: 73.4328
Line 1 Girder 7	: 74.6520
Line 1 Girder 8	: 75.8712
Line 1 Girder 9	: 69.4178
Line 1 Girder 10	: 62.5152
Line 1 Girder 11	: 72.1498
Dead Load DC on Precast	
Line 1 Girder 1	: 8.3243
Line 1 Girder 2	: 15.3012
Line 1 Girder 3	: 15.6123
Line 1 Girder 4	: 15.9235
Line 1 Girder 5	: 15.4056
Line 1 Girder 6	: 14.7524
Line 1 Girder 7	: 14.9974
Line 1 Girder 8	: 15.2423
Line 1 Girder 9	: 14.0122
Line 1 Girder 10	: 12.7682
Line 1 Girder 11	: 12.6987
Dead Load DW on Precast	
Line 1 Girder 1	: 0.0000
Line 1 Girder 2	: 0.0000
Line 1 Girder 3	: 0.0000
Line 1 Girder 4	: 0.0000
Line 1 Girder 5	: 0.0000
Line 1 Girder 6	: 0.0000
Line 1 Girder 7	: 0.0000
Line 1 Girder 8	: 0.0000
Line 1 Girder 9	: 0.0000
Line 1 Girder 10	: 0.0000
Line 1 Girder 11	: 0.0000
Live Load	
Live Load Max +ve, Truck	: 66.4094
Live Load Max +ve, Lane	: 38.4670

File: \\krm00\pwork3\Jobs\59219 - 14 SAMR\TECHPRD\43210012201\Segment 4\struct\eng_data\1-4 Over St. Johns River\01 Alternative 1 - Interior W dening\1. Superstructure\Span 11EB
 \Span11EB_RSP\rc_Input_StdSpacing_F1B.tbl.txt 10/2/2014, 4:43:38PM

Line 1 Girder 1	: 0.0000
Line 1 Girder 2	: 0.0000
Line 1 Girder 3	: 0.0000
Line 1 Girder 4	: 0.0000
Line 1 Girder 5	: 0.0000
Line 1 Girder 6	: 0.0000
Line 1 Girder 7	: 0.0000
Line 1 Girder 8	: 0.0000
Line 1 Girder 9	: 0.0000
Line 1 Girder 10	: 0.0000
Line 1 Girder 11	: 0.0000
Dead Load DC on Composite	
Line 1 Girder 1	: 4.5898
Line 1 Girder 2	: 4.5898
Line 1 Girder 3	: 4.5898
Line 1 Girder 4	: 4.5898
Line 1 Girder 5	: 4.5898
Line 1 Girder 6	: 4.5898
Line 1 Girder 7	: 4.5898
Line 1 Girder 8	: 4.5898
Line 1 Girder 9	: 4.5898
Line 1 Girder 10	: 4.5898
Line 1 Girder 11	: 4.5898
Dead Load DW on Composite	
Line 1 Girder 1	: 0.0000
Line 1 Girder 2	: 0.0000
Line 1 Girder 3	: 0.0000
Line 1 Girder 4	: 0.0000
Line 1 Girder 5	: 0.0000
Line 1 Girder 6	: 0.0000
Line 1 Girder 7	: 0.0000
Line 1 Girder 8	: 0.0000
Line 1 Girder 9	: 0.0000
Line 1 Girder 10	: 0.0000
Line 1 Girder 11	: 0.0000
Live Load	
Live Load Max +ve, Truck	: 66.4094
Live Load Max +ve, Lane	: 38.4670



Sheet #	1
Job #	

Program:	LEAP® CONSPAN® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM	
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 1984 - 2012	Date	Sept/9/2013	
		www.bentley.com Phone: 1-800-778-4277	Checked		
File Name:	Span11WB_Modified Spacing.csl			Date	

PROJECT DATA

Project:	I4 Over St. John's River Bridge
Designer:	CAM
Date:	Sept/9/2013
Checked By:	
Date Checked:	
User job number:	
State:	FL, State Job #:
State:	Florida
Specification:	
Design Code:	AASHTO LRFD - [6th Edition, 2012]
Units:	US
Span Type:	Simple Span
Flared Girder:	Yes
File Name:	\\Lkmw00\pmwork3\Jobs\59219 - I4 SAMR\TECHPROD\43210012201\Segment 4\structeng_data\I-4 Over St. Johns River\01 Alternative 1 - Interior Widening\1. Superstructure\Span 11WB\Span11WB_Modified Spacing.csl



Sheet #	2
Job #	

Program:	LEAP® CONSPAN® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM	
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 1984 - 2012	Date	Sept/9/2013	
		www.bentley.com Phone: 1-800-778-4277	Checked		
File Name:	Span11WB_Modified Spacing.csl			Date	

GEOMETRY DATA**ALIGNMENT DATA**

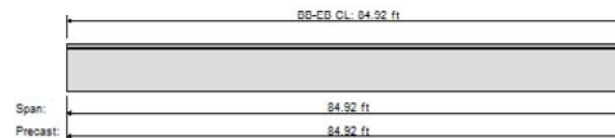
Bridge Alignment: ALG01
Beginning Station: 0+00.0000 ft

Seg	Shape	StartDirection	EndStation ft	Radius ft	Sense
1	Tangent	N 90 00 00.00 E	2+00.0000	-	-

BRIDGE LAYOUT

Overall Width (ft)	103.083
Left curb (ft)	1.542
Right curb (ft)	1.542
Curb-to-curb width (ft)	100.000
Number of spans	1
Number of lanes	8
Lane width (ft)	12.000
Eff Deck thick (in)	8.500
Sacrificial thick (in)	0.000
Haunch thickness (in)	1.000
Haunch width (in)	60.000
Bridge c/s,MI(l,xx) (in4)	19552822.00

Component	RefName	Station ft	Bearing	Deck Width ft	Deck Offset ft
Begin Bridge		0+00.0000	N 0 00 00.00 W	103.0830	-76.0000
Abutment	AB01	0+00.0000	N 0 00 00.00 W	103.0830	-76.0000
Abutment	AB02	0+84.9167	N 14 09 12.96 W	103.0830	-76.0000
End Bridge		0+84.9167	N 14 09 12.96 W	103.0830	-76.0000



Bridge elevation

BEAM DATA

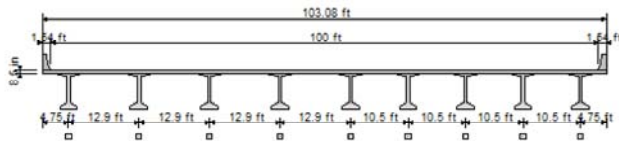
No	ID	Length ft	Loc-start ft	Loc-end ft	Area in2	MI(l,xx) in4	Height in	Yb in	B-topg in	B-trib ft
----	----	--------------	-----------------	---------------	-------------	-----------------	--------------	----------	--------------	--------------



Sheet # 3
Job #

Program: LEAP® CONSPAN® V8i (SELECTseries 5) SE Client Licenses Designed CAM
Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 1984 - 2012 Date Sept/9/2013
www.bentley.com Phone: 1-800-778-4277 Checked
File Name: Span11WB_Modified Spacing.csl Date

No	ID	Length ft	Loc-start ft	Loc-end ft	Area in2	MI(Ixx) in4	Height in	Yb in	B-topg in	B-trib ft
1	FIB-78	73.194	2.083	2.400	1100.6	904567.0	78.00	34.60	48.00	11.315
2	FIB-78	76.446	12.896	13.300	1100.6	904567.0	78.00	34.60	48.00	12.891
3	FIB-78	79.698	12.896	13.300	1100.6	904567.0	78.00	34.60	48.00	12.891
4	FIB-78	82.950	12.896	13.300	1100.6	904567.0	78.00	34.60	48.00	12.891
5	FIB-78	86.202	12.896	13.300	1100.6	904567.0	78.00	34.60	48.00	11.694
6	FIB-78	88.850	10.500	10.829	1100.6	904567.0	78.00	34.60	48.00	10.496
7	FIB-78	91.497	10.500	10.829	1100.6	904567.0	78.00	34.60	48.00	10.496
8	FIB-78	94.145	10.500	10.829	1100.6	904567.0	78.00	34.60	48.00	10.497
9	FIB-78	96.793	10.500	10.829	1100.6	904567.0	78.00	34.60	48.00	9.878



Bridge cross section

MATERIAL DATA - Project Level

As defined in Material Tab. For beam level properties look at Beam Specific output.

CONCRETE PROPERTIES

	Precast Release	Precast Final	C.I.P
f'c (ksi)	6.000	7.500	5.500
Wc (pcf)	150.000	150.000	150.000
Ec (ksi)	4016.840	4490.960	3845.830
K1	0.900	0.900	0.900
Thermal coeff.(1/°F)	0.00000600		

STRAND AND REBAR PROPERTIES

PRESTRESSED STEEL:

6/10-270K-LL, Low relaxation strands
Depressed at 0.40L
Strand Diameter = 0.600 in
Tensile Strength(fpu) = 270.0 ksi
Use transformed strand and rebar: Strand Only



Sheet # 4
Job #

Program: LEAP® CONSPAN® V8i (SELECTseries 5) SE Client Licenses Designed CAM
Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 1984 - 2012 Date Sept/9/2013
www.bentley.com Phone: 1-800-778-4277 Checked
File Name: Span11WB_Modified Spacing.csl Date

REINFORCING STEEL:

Tension/Shear steel: fy = 60.0 ksi Es = 29000 ksi fs = 24.0 ksi



Sheet # 5

Job #

Program: LEAP® CONSPAN® V8i (SELECTseries 5) SE Client Licenses Designed CAM

Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 1984 - 2012 Date Sept/9/2013

www.bentley.com Phone: 1-800-778-4277 Checked

File Name: Span11WB_Modified Spacing.csl Date

LOADS DATA

Loads generated using Permanent Load Wizard: YES

Left Barrier Weight, klf	0.000
Right Barrier Weight, klf	0.000
Left Curb Weight, klf	0.420
Right Curb Weight, klf	0.420
Left Sidewalk, klf	0.000
Right Sidewalk, klf	0.000
Future Wearing Surface, ksf	0.000
Sacrificial Wearing Surface, in	0.000
Stay in Place Deck Forms, klf	0.000

DEAD LOADS ON PRECAST

UNITS: (Point: kips, Location: ft, Line: klf, Trapez: klf)

Span	Beam	DC/DW	Type	Mag.1	Loc.1	Mag.2	Loc.2	Description
1	1	DC	Line	0.125	0.000	0.125	73.194	Add'l Build-Up
1	1	DC	Line	0.005	0.000	0.005	73.194	SIP
1	2	DC	Line	0.125	0.000	0.125	76.446	Add'l Build-Up
1	2	DC	Line	0.110	0.000	0.110	76.446	SIP
1	3	DC	Line	0.125	0.000	0.125	79.698	Add'l Build-Up
1	3	DC	Line	0.110	0.000	0.110	79.698	SIP
1	4	DC	Line	0.125	0.000	0.125	82.950	Add'l Build-Up
1	4	DC	Line	0.110	0.000	0.110	82.950	SIP
1	5	DC	Line	0.125	0.000	0.125	86.202	Add'l Build-Up
1	5	DC	Line	0.098	0.000	0.098	86.202	SIP
1	6	DC	Line	0.125	0.000	0.125	88.850	Add'l Build-Up
1	6	DC	Line	0.085	0.000	0.085	88.850	SIP
1	7	DC	Line	0.125	0.000	0.125	91.497	Add'l Build-Up
1	7	DC	Line	0.085	0.000	0.085	91.497	SIP
1	8	DC	Line	0.125	0.000	0.125	94.145	Add'l Build-Up
1	8	DC	Line	0.085	0.000	0.085	94.145	SIP
1	9	DC	Line	0.125	0.000	0.125	96.793	Add'l Build-Up
1	9	DC	Line	0.065	0.000	0.065	96.793	SIP
1	10	DC	Line	0.125	0.000	0.125	72.606	Add'l Build-Up
1	10	DC	Line	0.046	0.000	0.046	72.606	SIP
1	11	DC	Line	0.125	0.000	0.125	72.606	Add'l Build-Up
1	11	DC	Line	0.043	0.000	0.043	72.606	SIP

DIAPHRAGM LOADS - using Wizard

Span	Magnitude (plf)	Location (ft)	Skew (deg)
1	1675.000	1.000	0.000
1	1675.000	84.900	-14.150



Sheet # 6

Job #

Program: LEAP® CONSPAN® V8i (SELECTseries 5) SE Client Licenses Designed CAM

Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 1984 - 2012 Date Sept/9/2013

www.bentley.com Phone: 1-800-778-4277 Checked

File Name: Span11WB_Modified Spacing.csl Date

Span	Beam	Load (kips)	Location (ft)
1	1	10.312	1.000
1	1	10.636	53.988
1	2	20.623	1.000
1	2	21.272	57.240
1	3	20.623	1.000
1	3	21.272	60.491
1	4	20.623	1.000
1	4	21.272	63.743
1	5	18.617	1.000
1	5	19.202	66.995
1	6	16.610	1.000
1	6	17.132	69.642
1	7	16.610	1.000
1	7	17.132	72.290
1	8	16.610	1.000
1	8	17.132	74.938
1	9	8.305	1.000
1	9	8.566	77.585

DEAD LOADS ON COMPOSITE

UNITS: (Point: kips, Location: ft, Line: klf, Trapez: klf, Area: ksf, Width: ft)

Span	DC/DW	Type	Mag.1	Loc.1/Width	Mag.2	Loc.2	Description
1	DC	Line	0.420	0.000	0.420	73.194	Left Curb Weight
1	DC	Line	0.420	0.000	0.420	73.194	Right Curb Weight

TEMPERATURE LOADS - NONE

LIVE LOADS

Live load deflection: not included.

ID	Type
Design Lane	Design Lane
Design Tandem	Design Tandem
Design Truck	Design Truck

Pedestrian Load - NONE



Sheet #	7
Job #	

Program:	LEAP® CONSPAN® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM	
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 1984 - 2012	Date	Sept/9/2013	
		www.bentley.com Phone: 1-800-778-4277	Checked		
File Name:	Span11WB_Modified Spacing.csl			Date	

ANALYSIS DATA**ANALYSIS PARAMETERS DATA**

Truck impact:	1.330
Lane impact:	1.000
Strength II impact:	1.330
Fatigue impact:	1.150

DISTRIBUTION FACTORS (Art. 4.6.2.2):

Is Span Post-tensioned:	NO
Include Rigid Cross Section Assumption (Art. 4.6.2.2.2d):	YES
ADTT (Average Daily Truck Traffic) :	5000
Percent of the specified force effect :	1.00

NOTE: Beam specific dead and live load DFs are printed in beam level reports.

LOAD FACTORS: (Table 3.4.1-1 & 3.4.1-2)

	Live	DC(max)	DC(min)	DW(max)	DW(min)
Service I:	1.00	1.00	-	1.00	-
Service III:	0.80	1.00	-	1.00	-
Strength I:	1.75	1.25	0.90	1.50	0.65
Fatigue I:	1.50	-	-	-	-

Ductility Factor:	1.00
Redundancy Factor:	1.00
Importance Factor:	1.00



Sheet #	8
Job #	

Program:	LEAP® CONSPAN® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM	
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 1984 - 2012	Date	Sept/9/2013	
		www.bentley.com Phone: 1-800-778-4277	Checked		
File Name:	Span11WB_Modified Spacing.csl			Date	

PROJECT DESIGN PARAMETERS**MULTIPLIERS:**

Trans len mult:	Bonded	1.00
	Debonded	1.00
Dev len mult:	Bonded	1.60
	Debonded	2.00

Camber & Deflection Multiplier (PCI ref.)

	Erection	Final
Prestress:	1.80	2.20
Self. Wt:	1.85	2.40
Deck + Haunch:		2.30
Diaphragm:		3.00
DL-Prec.:		3.00
DL-Comp.:		3.00

MOMENT AND SHEAR PROVISIONS:

Ultimate Moment Capacity, Mr-prvd computed:	AASHTO equations
Horizontal Shear, Beam and Slab effects in Vu:	INCLUDED

STRESS LIMITS (Art. 5.9.4):**STRESS LIMITS AT RELEASE BEFORE LOSSES (Using Advanced Settings):**

		PRECAST	
Strength		6.00	ksi
Elasticity		4016.8	ksi
Max comp		3.60	ksi
Outer	15.00 %		
Max tens	w/reinf	-0.23	ksi
Max tens, Center	70.00 %	-0.93	ksi
Max tens	w/reinf	-0.23	ksi
Max tens	w/reinf	-0.59	ksi

STRESS LIMITS AT FINAL AFTER LOSSES:

	PRECAST	DECK
Strength	7.50 ksi	5.50 ksi
Elasticity	4490.96 ksi	3845.83 ksi

STRESS LIMITS AT FINAL 1 (P/S + DL + LL):

	PRECAST	DECK
Max comp	4.50 ksi	3.30 ksi

STRESS LIMITS AT FINAL 2 (P/S + DL):



Sheet #	9
Job #	

Program:	LEAP® CONSPAN® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM	
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 1984 - 2012	Date	Sept/9/2013	
	www.bentley.com	Phone: 1-800-778-4277	Checked		
File Name:	Span11WB_Modified Spacing.csl			Date	

	PRECAST	DECK
Max comp	3.38 ksi	2.47 ksi

FATIGUE I STRESS LIMITS AT FINAL 3 (50% P/S + 50% DL + F_LL) (Art. 5.5.3.1):

	PRECAST	DECK
Max comp	3.00 ksi	- ksi

SERVICE III (Tension):

	PRECAST	DECK
Max tens	-0.52 ksi	-0.45 ksi

RESISTANCE FACTORS (Art. 5.5.4.2):

Flexure Reinforced	
Compression controlled sections	0.75
Tension controlled sections	0.90
Flexure Prestressed	
Compression controlled sections	0.75
Tension controlled sections	1.00
Shear	0.90

PRESTRESS LOSSES:

Time Dependent Losses, Approximate Method (Art.5.9.5.3)
Days to release = 0.75
Rel. Humid.(RH) = 75.0 %

File: \\Lkmo00\pwork3\
Jobs\59219 - 14 SAMR\T1

Export File Generated
by CONSPAN v12.1.0
File Name:
\\Lkmo00\PMWORK3\Jobs\
59219 - 14
SAMR\TECHPROD\43210012
201\Segment
4\struct\eng_data\1-4
Over St. Johns
River\01 Alternatve 1
- Interior Widening\1.
Superstructure\Span
1\EB\Span1\EB_Modified
Spacing.csl
Code: AASHTO LRFD
Units: US Units,
(KIPS, ft)
Number of Spans: 1
Left Curb Width:
1.5417
Right Curb Width:
1.5417

Span #	Span Length
1	104.0979

Number Of Beams	Bridge Width
9	97.7500

100.6888

Abutment #: 1
Self Weight
Line 1 Girder 1 : 41.9567
Line 1 Girder 2 : 43.8209
Line 1 Girder 3 : 45.6850
Line 1 Girder 4 : 47.5492
Line 1 Girder 5 : 49.4134
Line 1 Girder 6 : 50.9312
Line 1 Girder 7 : 52.4490
Line 1 Girder 8 : 53.9668
Line 1 Girder 9 : 55.4846
Self + Deck
Line 1 Girder 1 : 54.7345
Line 1 Girder 2 : 57.0644
Line 1 Girder 3 : 59.3940
Line 1 Girder 4 : 61.7236
Line 1 Girder 5 : 64.0535
Line 1 Girder 6 : 66.3834
Line 1 Girder 7 : 68.7133
Line 1 Girder 8 : 71.0432
Line 1 Girder 9 : 73.3731
Dead Load DC on
Precast
Line 1 Girder 1 : 8.9824
Line 1 Girder 2 : 9.3645
Line 1 Girder 3 : 9.7466
Line 1 Girder 4 : 10.1287
Line 1 Girder 5 : 10.5108
Line 1 Girder 6 : 10.8929
Line 1 Girder 7 : 11.2750
Line 1 Girder 8 : 11.6571
Line 1 Girder 9 : 12.0392
Dead Load DW on
Precast
Line 1 Girder 1 : 0.0000
Line 1 Girder 2 : 0.0000
Line 1 Girder 3 : 0.0000
Line 1 Girder 4 : 0.0000
Line 1 Girder 5 : 0.0000
Line 1 Girder 6 : 0.0000
Line 1 Girder 7 : 0.0000
Line 1 Girder 8 : 0.0000
Line 1 Girder 9 : 0.0000
Dead Load DC on
Composite
Line 1 Girder 1 : 4.8579
Line 1 Girder 2 : 4.8579
Line 1 Girder 3 : 4.8579
Line 1 Girder 4 : 4.8579
Line 1 Girder 5 : 4.8579
Line 1 Girder 6 : 4.8579
Line 1 Girder 7 : 4.8579
Line 1 Girder 8 : 4.8579
Line 1 Girder 9 : 4.8579

File: \\Lkmo00\pwork3\
Jobs\59219 - 14 SAMR\T1

Line 1 Girder 8 : 4.8579
Line 1 Girder 9 : 4.8579
Dead Load DW on
Composite
Line 1 Girder 1 : 0.0000
Line 1 Girder 2 : 0.0000
Line 1 Girder 3 : 0.0000
Line 1 Girder 4 : 0.0000
Line 1 Girder 5 : 0.0000
Line 1 Girder 6 : 0.0000
Line 1 Girder 7 : 0.0000
Line 1 Girder 8 : 0.0000
Line 1 Girder 9 : 0.0000
Live Load
Live Load Max +ve,
Truck
67.2340
Live Load Max +ve,
Lane
34.1701

Abutment #: 2
Self Weight
Line 1 Girder 1 : 41.9567
Line 1 Girder 2 : 43.8209
Line 1 Girder 3 : 45.6850
Line 1 Girder 4 : 47.5492
Line 1 Girder 5 : 49.4134
Line 1 Girder 6 : 50.9312
Line 1 Girder 7 : 52.4490
Line 1 Girder 8 : 53.9668
Line 1 Girder 9 : 55.4846
Self + Deck
Line 1 Girder 1 : 54.7345
Line 1 Girder 2 : 57.0644
Line 1 Girder 3 : 59.3940
Line 1 Girder 4 : 61.7236
Line 1 Girder 5 : 64.0535
Line 1 Girder 6 : 66.3834
Line 1 Girder 7 : 68.7133
Line 1 Girder 8 : 71.0432
Line 1 Girder 9 : 73.3731
Dead Load DC on
Precast
Line 1 Girder 1 : 8.9824
Line 1 Girder 2 : 9.3645
Line 1 Girder 3 : 9.7466
Line 1 Girder 4 : 10.1287
Line 1 Girder 5 : 10.5108
Line 1 Girder 6 : 10.8929
Line 1 Girder 7 : 11.2750
Line 1 Girder 8 : 11.6571
Line 1 Girder 9 : 12.0392
Dead Load DW on
Precast
Line 1 Girder 1 : 0.0000
Line 1 Girder 2 : 0.0000
Line 1 Girder 3 : 0.0000
Line 1 Girder 4 : 0.0000
Line 1 Girder 5 : 0.0000
Line 1 Girder 6 : 0.0000
Line 1 Girder 7 : 0.0000
Line 1 Girder 8 : 0.0000
Line 1 Girder 9 : 0.0000
Dead Load DC on
Composite
Line 1 Girder 1 : 4.8579
Line 1 Girder 2 : 4.8579
Line 1 Girder 3 : 4.8579
Line 1 Girder 4 : 4.8579
Line 1 Girder 5 : 4.8579
Line 1 Girder 6 : 4.8579
Line 1 Girder 7 : 4.8579
Line 1 Girder 8 : 4.8579
Line 1 Girder 9 : 4.8579

File: \\lkm00\pwork3\Jobs\59219 - 14 SAMRNT

Dead Load DW on
Composite
Line 1 Girder 1
: 0.0000
Line 1 Girder 2
: 0.0000
Line 1 Girder 3
: 0.0000
Line 1 Girder 4
: 0.0000
Line 1 Girder 5
: 0.0000
Line 1 Girder 6
: 0.0000
Line 1 Girder 7
: 0.0000
Line 1 Girder 8
: 0.0000
Line 1 Girder 9
: 0.0000
Live Load
Live Load Max +ve,
Truck :
68.0928
Live Load Max +ve,
Lane :
34.1701



Sheet #	1
Job #	

Program:	LEAP® CONSPAN® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM	
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 1984 - 2012	Date	Sept/9/2013	
	www.bentley.com	Phone: 1-800-778-4277	Checked		
File Name:	Span12EB_ModifiedSpacing.csl			Date	

PROJECT DATA

Project:	I4 Widening Over St. John's
Designer:	KSM
Date:	Sept/9/2013
Checked By:	
Date Checked:	
User job number:	
State:	FL, State Job #:
State:	Florida
Specification:	
Design Code:	AASHTO LRFD - [6th Edition, 2012]
Units:	US
Span Type:	Simple Span
Flared Girder:	Yes
Comments:	Span 12 - Modified Spacing
File Name:	\\lkmw00\pmwork3\Jobs\59219 - I4 SAMR\TECHPROD\43210012201\Segment 4\struct\eng_data\I-4 Over St. Johns River\01 Alternative 1 - Interior Widening\1. Superstructure\Span 12EB\Span12EB_ModifiedSpacing.csl



Sheet #	2
Job #	

Program:	LEAP® CONSPAN® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM	
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 1984 - 2012	Date	Sept/9/2013	
	www.bentley.com	Phone: 1-800-778-4277	Checked		
File Name:	Span12EB_ModifiedSpacing.csl			Date	

GEOMETRY DATA

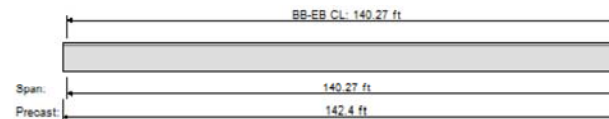
ALIGNMENT DATA
 Bridge Alignment: ALG01
 Beginning Station: 0+00.0000 ft

Seg	Shape	StartDirection	EndStation ft	Radius ft	Sense
1	Tangent	N 90 00 00.00 E	2+00.0000	-	-

BRIDGE LAYOUT

Overall Width (ft)	103.073
Left curb (ft)	1.542
Right curb (ft)	1.542
Curb-to-curb width (ft)	99.990
Number of spans	1
Number of lanes	8
Lane width (ft)	12.000
Eff Deck thick (in)	8.500
Sacrificial thick (in)	0.000
Haunch thickness (in)	1.000
Haunch width (in)	60.000
Bridge c/s.MI(1xx) (in4)	21063516.00

Component	RefName	Station ft	Bearing	Deck Width ft	Deck Offset ft
Begin Bridge		0+02.0600	N 14 09 12.96 W	103.0730	0.0000
Abutment	AB01	0+02.0600	N 14 09 12.96 W	103.0730	0.0000
Abutment	AB02	1+42.3330	N 14 09 12.96 W	103.0730	0.0000
End Bridge		1+42.3330	N 14 09 12.96 W	103.0730	0.0000



Bridge elevation

BEAM DATA

No	ID	Length ft	Loc-start ft	Loc-end ft	Area in2	MI(1xx) in4	Height in	Yb in	B-topg in	B-trib ft



Sheet # 3

Job #

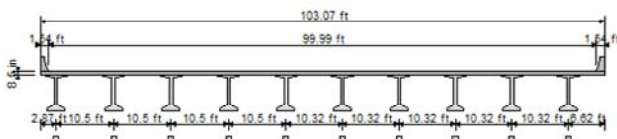
Program: LEAP® CONSPAN® V8i (SELECTseries 5) SE Client Licenses Designed KSM

Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 1984 - 2012 Date Sept/9/2013

www.bentley.com Phone: 1-800-778-4277 Checked

File Name: Span12EB_ModifiedSpacing.csl Date

No	ID	Length ft	Loc-start ft	Loc-end ft	Area in2	MI(Ixx) in4	Height in	Yb in	B-topg in	B-trib ft
1	FIB-78	142.397	2.396	2.396	1100.6	904567.0	78.00	34.60	48.00	8.122
2	FIB-78	142.397	10.829	10.829	1100.6	904567.0	78.00	34.60	48.00	10.509
3	FIB-78	142.397	10.829	10.829	1100.6	904567.0	78.00	34.60	48.00	10.509
4	FIB-78	142.397	10.829	10.829	1100.6	904567.0	78.00	34.60	48.00	10.509
5	FIB-78	142.397	10.829	10.829	1100.6	904567.0	78.00	34.60	48.00	10.418
6	FIB-78	142.397	10.641	10.641	1100.6	904567.0	78.00	34.60	48.00	10.327
7	FIB-78	142.397	10.641	10.641	1100.6	904567.0	78.00	34.60	48.00	10.327
8	FIB-78	142.397	10.641	10.641	1100.6	904567.0	78.00	34.60	48.00	10.327
9	FIB-78	142.397	10.641	10.641	1100.6	904567.0	78.00	34.60	48.00	10.327
10	FIB-78	142.397	10.641	10.641	1100.6	904567.0	78.00	34.60	48.00	11.781



Bridge cross section

MATERIAL DATA - Project Level

As defined in Material Tab. For beam level properties look at Beam Specific output.

CONCRETE PROPERTIES

	Precast Release	Precast Final	C.I.P
f'c (ksi)	6.000	7.500	5.500
Wc (pcf)	150.000	150.000	150.000
Ec (ksi)	4016.840	4490.960	3845.830
K1	0.900	0.900	0.900
Thermal coeff.(1/°F)	0.00000600		

STRAND AND REBAR PROPERTIES**PRESTRESSED STEEL:**

6/10-270K-LL, Low relaxation strands
 Depressed at 0.40L
 Strand Diameter = 0.600 in
 Tensile Strength(fpu) = 270.0 ksi



Sheet # 4

Job #

Program: LEAP® CONSPAN® V8i (SELECTseries 5) SE Client Licenses Designed KSM

Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 1984 - 2012 Date Sept/9/2013

www.bentley.com Phone: 1-800-778-4277 Checked

File Name: Span12EB_ModifiedSpacing.csl Date

Use transformed strand and rebar: Strand Only

REINFORCING STEEL:

Tension/Shear steel: fy = 60.0 ksi Es = 29000 ksi fs = 24.0 ksi



Sheet # 5
Job #

Program:	LEAP® CONSPAN® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 1984 - 2012	Date	Sept/9/2013
	www.bentley.com	Phone: 1-800-778-4277	Checked	
File Name:	Span12EB_ModifiedSpacing.csl			Date

LOADS DATA

Loads generated using Permanent Load Wizard: YES

Left Barrier Weight, klf	0.000
Right Barrier Weight, klf	0.000
Left Curb Weight, klf	0.420
Right Curb Weight, klf	0.420
Left Sidewalk, klf	0.000
Right Sidewalk, klf	0.000
Future Wearing Surface, ksf	0.000
Sacrificial Wearing Surface, in	0.000
Stay in Place Deck Forms, klf	0.000

DEAD LOADS ON PRECAST

UNITS: (Point: kips, Location: ft, Line: klf, Trapez: klf)

Span	Beam	DC/DW	Type	Mag.1	Loc.1	Mag.2	Loc.2	Description
1	1	DC	Line	0.055	0.000	0.055	140.273	SIP
1	1	DC	Line	0.125	0.000	0.125	140.273	Haunch
1	2	DC	Line	0.110	0.000	0.110	140.273	SIP
1	2	DC	Line	0.125	0.000	0.125	140.273	Haunch
1	3	DC	Line	0.110	0.000	0.110	140.273	SIP
1	3	DC	Line	0.125	0.000	0.125	140.273	Haunch
1	4	DC	Line	0.110	0.000	0.110	140.273	SIP
1	4	DC	Line	0.125	0.000	0.125	140.273	Haunch
1	5	DC	Line	0.108	0.000	0.108	140.273	SIP
1	5	DC	Line	0.125	0.000	0.125	140.273	Haunch
1	6	DC	Line	0.106	0.000	0.106	140.273	SIP
1	6	DC	Line	0.125	0.000	0.125	140.273	Haunch
1	7	DC	Line	0.106	0.000	0.106	140.273	SIP
1	7	DC	Line	0.125	0.000	0.125	140.273	Haunch
1	8	DC	Line	0.106	0.000	0.106	140.273	SIP
1	8	DC	Line	0.125	0.000	0.125	140.273	Haunch
1	9	DC	Line	0.106	0.000	0.106	140.273	SIP
1	9	DC	Line	0.125	0.000	0.125	140.273	Haunch
1	10	DC	Line	0.053	0.000	0.053	140.273	SIP
1	10	DC	Line	0.125	0.000	0.125	140.273	Haunch

DIAPHRAGM LOADS - using Wizard

Span	Magnitude (plf)	Location (ft)	Skew (deg)
1	1675.000	1.000	-14.154
1	1675.000	140.000	-14.150



Sheet # 6
Job #

Program:	LEAP® CONSPAN® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 1984 - 2012	Date	Sept/9/2013
	www.bentley.com	Phone: 1-800-778-4277	Checked	
File Name:	Span12EB_ModifiedSpacing.csl			Date

Span	Beam	Load (kips)	Location (ft)
1	1	8.565	1.000
1	1	8.565	140.003
1	2	17.130	1.000
1	2	17.130	140.003
1	3	17.130	1.000
1	3	17.130	140.002
1	4	17.130	1.000
1	4	17.130	140.001
1	5	16.973	1.000
1	5	16.973	140.000
1	6	16.816	1.000
1	6	16.815	140.000
1	7	16.816	1.000
1	7	16.815	139.999
1	8	16.816	1.000
1	8	16.815	139.998
1	9	16.816	1.000
1	9	16.815	139.998
1	10	8.408	1.000
1	10	8.408	139.997

DEAD LOADS ON COMPOSITE

UNITS: (Point: kips, Location: ft, Line: klf, Trapez: klf, Area: ksf, Width: ft)

Span	DC/DW	Type	Mag.1	Loc.1/Width	Mag.2	Loc.2	Description
1	DC	Line	0.420	0.000	0.420	140.273	Left Curb Weight
1	DC	Line	0.420	0.000	0.420	140.273	Right Curb Weight

TEMPERATURE LOADS - NONE

LIVE LOADS

Live load deflection: not included.

ID	Type
Design Lane	Design Lane
Design Tandem	Design Tandem
Design Truck	Design Truck

Pedestrian Load - NONE



Sheet # 7

Job #

Program: LEAP® CONSPAN® V8i (SELECTseries 5) SE Client Licenses Designed KSM

Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 1984 - 2012 Date Sept/9/2013

www.bentley.com Phone: 1-800-778-4277 Checked

File Name: Span12EB_ModifiedSpacing.csl Date

ANALYSIS DATA**ANALYSIS PARAMETERS DATA**

Truck impact:	1.330
Lane impact:	1.000
Strength II impact:	1.330
Fatigue impact:	1.150

DISTRIBUTION FACTORS (Art. 4.6.2.2):

Is Span Post-tensioned:	NO
Include Rigid Cross Section Assumption (Art. 4.6.2.2.2d):	YES
ADTT (Average Daily Truck Traffic) :	5000
Percent of the specified force effect :	1.00

NOTE: Beam specific dead and live load DFs are printed in beam level reports.

LOAD FACTORS: (Table 3.4.1-1 & 3.4.1-2)

	Live	DC(max)	DC(min)	DW(max)	DW(min)
Service I:	1.00	1.00	-	1.00	-
Service III:	0.80	1.00	-	1.00	-
Strength I:	1.75	1.25	0.90	1.50	0.65
Fatigue I:	1.50	-	-	-	-

Ductility Factor:	1.00
Redundancy Factor:	1.00
Importance Factor:	1.00



Sheet # 8

Job #

Program: LEAP® CONSPAN® V8i (SELECTseries 5) SE Client Licenses Designed KSM

Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 1984 - 2012 Date Sept/9/2013

www.bentley.com Phone: 1-800-778-4277 Checked

File Name: Span12EB_ModifiedSpacing.csl Date

PROJECT DESIGN PARAMETERS**MULTIPLIERS:**

Trans len mult:	Bonded	1.00
	Debonded	1.00
Dev len mult:	Bonded	1.60
	Debonded	2.00

Camber & Deflection Multiplier (PCI ref.)

	Erection	Final
Prestress:	1.80	2.20
Self. Wt:	1.85	2.40
Deck + Haunch:		2.30
Diaphragm:		3.00
DL-Prec.:		3.00
DL-Comp.:		3.00

MOMENT AND SHEAR PROVISIONS:

Ultimate Moment Capacity, Mr-prvd computed:	AASHTO equations
Horizontal Shear, Beam and Slab effects in Vu:	INCLUDED

STRESS LIMITS (Art. 5.9.4):**STRESS LIMITS AT RELEASE BEFORE LOSSES (Using Advanced Settings):**

		PRECAST	
Strength		6.00	ksi
Elasticity		4016.8	ksi
Max comp		3.60	ksi
Outer	15.00 %		
Max tens	w/reinf	-0.23	ksi
Max tens, Center	70.00 %	-0.93	ksi
Max tens	w/reinf	-0.23	ksi
Max tens	w/reinf	-0.59	ksi

STRESS LIMITS AT FINAL AFTER LOSSES:

	PRECAST	DECK
Strength	7.50 ksi	5.50 ksi
Elasticity	4490.96 ksi	3845.83 ksi

STRESS LIMITS AT FINAL 1 (P/S + DL + LL):

	PRECAST	DECK
Max comp	4.50 ksi	3.30 ksi

STRESS LIMITS AT FINAL 2 (P/S + DL):



Sheet #	9
Job #	

Program:	LEAP® CONSPAN® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 1984 - 2012	Date	Sept/9/2013
	www.bentley.com	Phone: 1-800-778-4277	Checked	
File Name:	Span12EB_ModifiedSpacing.csl		Date	

	PRECAST	DECK
Max comp	3.38 ksi	2.47 ksi

FATIGUE I STRESS LIMITS AT FINAL 3 (50% P/S + 50% DL + F_LL) (Art. 5.5.3.1):

	PRECAST	DECK
Max comp	3.00 ksi	- ksi

SERVICE III (Tension):

	PRECAST	DECK
Max tens	-0.52 ksi	-0.45 ksi

RESISTANCE FACTORS (Art. 5.5.4.2):

Flexure Reinforced	
Compression controlled sections	0.75
Tension controlled sections	0.90
Flexure Prestressed	
Compression controlled sections	0.75
Tension controlled sections	1.00
Shear	0.90

PRESTRESS LOSSES:

Time Dependent Losses, Approximate Method (Art.5.9.5.3)
Days to release = 0.75
Rel. Humid.(RH) = 75.0 %

File: \\kmo00\pwork3\Jobs\59219 - 14 SAMR\TECHPRD\43210012201\Segment 4\struct\eng_data\1-4 Over St. Johns River\01 Alternative 1 - Interior \W dening\1. Superstructure\Span 12EB
 \Span12EB_RSPH or Input_BedSpacing_F1B-7B.txt 10/18/2013, 1:44:21PM

Export File Generated by CONSPAN v12.1.0
 File Name: \\kmo00\pwork3\Jobs\59219 - 14 SAMR\TECHPRD\43210012201\Segment 4\struct\eng_data\1-4 Over St. Johns River\01 Alternative 1 - Interior \W dening\1. Superstructure\Span
 \Span12EB_RSPH or Input_BedSpacing_F1B-7B.txt
 Code: AASHTO LRFD
 Units: US Units, (KIPS, FT)
 Number of Spans: 1
 Left Curb Width: 1.5417
 Right Curb Width: 1.5417

Span #	Span Length	Number Of Beams	Bridge Width
1	140.2730	10	105.1770

Abutment # 1
 Self Weight : 80.4086
 Line 1 Girder 1 : 80.4086
 Line 1 Girder 2 : 80.4086
 Line 1 Girder 3 : 80.4086
 Line 1 Girder 4 : 80.4086
 Line 1 Girder 5 : 80.4086
 Line 1 Girder 6 : 80.4086
 Line 1 Girder 7 : 80.4086
 Line 1 Girder 8 : 80.4086
 Line 1 Girder 9 : 80.4086
 Line 1 Girder 10 : 80.4086
 Self + Deck : 64.9095
 Line 1 Girder 1 : 82.6988
 Line 1 Girder 2 : 82.6988
 Line 1 Girder 3 : 82.6988
 Line 1 Girder 4 : 82.0190
 Line 1 Girder 5 : 81.3391
 Line 1 Girder 6 : 81.3391
 Line 1 Girder 7 : 81.3391
 Line 1 Girder 8 : 81.3391
 Line 1 Girder 9 : 81.3391
 Line 1 Girder 10 : 92.1725
 Dead Load DC on Precast : 12.4244
 Line 1 Girder 1 : 16.4821
 Line 1 Girder 2 : 16.4821
 Line 1 Girder 3 : 16.4821
 Line 1 Girder 4 : 16.4821
 Line 1 Girder 5 : 16.3418
 Line 1 Girder 6 : 16.2015
 Line 1 Girder 7 : 16.2015
 Line 1 Girder 8 : 16.2015
 Line 1 Girder 9 : 16.2015
 Line 1 Girder 10 : 12.4843
 Dead Load DW on Precast : 0.0000
 Line 1 Girder 1 : 0.0000
 Line 1 Girder 2 : 0.0000
 Line 1 Girder 3 : 0.0000
 Line 1 Girder 4 : 0.0000
 Line 1 Girder 5 : 0.0000
 Line 1 Girder 6 : 0.0000
 Line 1 Girder 7 : 0.0000
 Line 1 Girder 8 : 0.0000
 Line 1 Girder 9 : 0.0000
 Line 1 Girder 10 : 0.0000
 Dead Load DC on Composite : 5.8915
 Line 1 Girder 1 : 5.8915
 Line 1 Girder 2 : 5.8915
 Line 1 Girder 3 : 5.8915
 Line 1 Girder 4 : 5.8915
 Line 1 Girder 5 : 5.8915
 Line 1 Girder 6 : 5.8915
 Line 1 Girder 7 : 5.8915
 Line 1 Girder 8 : 5.8915
 Line 1 Girder 9 : 5.8915
 Line 1 Girder 10 : 5.8915
 Dead Load DW on Composite : 0.0000
 Line 1 Girder 1 : 0.0000
 Line 1 Girder 2 : 0.0000
 Line 1 Girder 3 : 0.0000
 Line 1 Girder 4 : 0.0000
 Line 1 Girder 5 : 0.0000
 Line 1 Girder 6 : 0.0000
 Line 1 Girder 7 : 0.0000
 Line 1 Girder 8 : 0.0000
 Line 1 Girder 9 : 0.0000
 Line 1 Girder 10 : 0.0000
 Live Load : 67.2091
 Live Load Max +ve. Truck : 67.2091
 Live Load Max +ve. Lane : 44.8874

Abutment # 2
 Self Weight : 80.4086
 Line 1 Girder 1 : 80.4086
 Line 1 Girder 2 : 80.4086
 Line 1 Girder 3 : 80.4086
 Line 1 Girder 4 : 80.4086
 Line 1 Girder 5 : 80.4086
 Line 1 Girder 6 : 80.4086
 Line 1 Girder 7 : 80.4086
 Line 1 Girder 8 : 80.4086
 Line 1 Girder 9 : 80.4086
 Line 1 Girder 10 : 80.4086
 Self + Deck : 64.9095
 Line 1 Girder 1 : 82.6988
 Line 1 Girder 2 : 82.6988
 Line 1 Girder 3 : 82.6988
 Line 1 Girder 4 : 82.0190
 Line 1 Girder 5 : 81.3391
 Line 1 Girder 6 : 81.3391
 Line 1 Girder 7 : 81.3391
 Line 1 Girder 8 : 81.3391
 Line 1 Girder 9 : 81.3391
 Line 1 Girder 10 : 92.1725
 Dead Load DC on Precast : 12.4244
 Line 1 Girder 1 : 16.4821
 Line 1 Girder 2 : 16.4821
 Line 1 Girder 3 : 16.4821
 Line 1 Girder 4 : 16.4821
 Line 1 Girder 5 : 16.3418
 Line 1 Girder 6 : 16.2015
 Line 1 Girder 7 : 16.2015
 Line 1 Girder 8 : 16.2015
 Line 1 Girder 9 : 16.2015
 Line 1 Girder 10 : 12.4843
 Dead Load DW on Precast : 0.0000
 Line 1 Girder 1 : 0.0000
 Line 1 Girder 2 : 0.0000
 Line 1 Girder 3 : 0.0000
 Line 1 Girder 4 : 0.0000
 Line 1 Girder 5 : 0.0000
 Line 1 Girder 6 : 0.0000
 Line 1 Girder 7 : 0.0000
 Line 1 Girder 8 : 0.0000
 Line 1 Girder 9 : 0.0000

File: \\kmo00\pwork3\Jobs\59219 - 14 SAMR\TECHPRD\43210012201\Segment 4\struct\eng_data\1-4 Over St. Johns River\01 Alternative 1 - Interior \W dening\1. Superstructure\Span 12EB
 \Span12EB_RSPH or Input_BedSpacing_F1B-7B.txt 10/18/2013, 1:44:21PM

Line 1 Girder 10 : 0.0000
 Dead Load DC on Composite : 5.8915
 Line 1 Girder 1 : 5.8915
 Line 1 Girder 2 : 5.8915
 Line 1 Girder 3 : 5.8915
 Line 1 Girder 4 : 5.8915
 Line 1 Girder 5 : 5.8915
 Line 1 Girder 6 : 5.8915
 Line 1 Girder 7 : 5.8915
 Line 1 Girder 8 : 5.8915
 Line 1 Girder 9 : 5.8915
 Line 1 Girder 10 : 5.8915
 Dead Load DW on Composite : 0.0000
 Line 1 Girder 1 : 0.0000
 Line 1 Girder 2 : 0.0000
 Line 1 Girder 3 : 0.0000
 Line 1 Girder 4 : 0.0000
 Line 1 Girder 5 : 0.0000
 Line 1 Girder 6 : 0.0000
 Line 1 Girder 7 : 0.0000
 Line 1 Girder 8 : 0.0000
 Line 1 Girder 9 : 0.0000
 Line 1 Girder 10 : 0.0000
 Live Load : 67.2091
 Live Load Max +ve. Truck : 67.2091
 Live Load Max +ve. Lane : 44.8874

ALTERNATIVE 1



FOR:		JOB NO.:	
MADE BY: CAM		SHEET NO.:	
CHECKED BY:		BACKCHECKED BY:	
DATE: 10/1/2014	DATE:	DATE:	DATE:

Section Property Calculations

Description	Section Name	Shape	H in	W in	A	I _x	I _y	r _x	r _y
Pier Cap Beam	Pier_Cap	Rectangular	72	54	3888	1679616	944784	20.7846097	15.58845727
Pier Column	Pier_Column	General	72	49.5					See CSIBridge Section Designer
FIB 78 Widening Beam	FIB_78	General	78						See CSIBridge Section Designer
FBT 78 Existing Beam	FBT_78	General	78						See CSIBridge Section Designer
Footing	Footing	Shell							

Notes:

1. Rustication on column faces is neglected.
2. Column chamfers are included in section property determinations

FOR:		JOB NO.:	
MADE BY: CAM		CHECKED BY:	
DATE: 10/1/2014		DATE:	
		SHEET NO.:	
		BACKCHECKED BY:	
		DATE:	



Section Property Calculations

Description	Material Name	f'c	Unit Weight	E					
		(ksi)	(kcf)	(ksi)					
Deck Concrete (Class II)	4500psi	4.500	0.150	3660					
Beam Concrete (Class IV)	8500psi	8.500	0.150	5030					
Substructure Concrete (Class IV Mass)	5500psi	5.500	0.150	4046					

Notes:

1. Rustication on column faces is neglected.

FOR:			JOB NO.:	
MADE BY:	CAM	CHECKED BY:	BACKCHECKED BY:	
DATE:	10/1/2014	DATE:	DATE:	



Loads

Load Case	Load Components	Deck (kif)	Girders (kif)	SIP (kif)	Ped. And Bicycle Railing (kif)	Bridge Fencing (kif)	Pedestrian Load (kif)	Σ
DC	Girder self-weight, Deck self-weight, SIP forms	1.50	1.812	0.08	--	--	--	3.392
DW	Pedestrian and Bicycle railing, Bridge Fencing	--	--	--	0.225	0.085	--	0.310
PL	90 psf	--	--	--	--	--	1.35	1.350
LL	H10 Truck	--	--	--	--	--	--	0.000

<- Developed in CSIBridge Model

Load Combinations		γ
Strength I	DC	1.25
	DW	1.50
	PL	1.75
	LL	1.75
Strengt III	DC	1.25
	DW	1.50
	PL	0.00
	LL	0.00
Service I	DC	1.00
	DW	1.00
	PL	1.00
	LL	1.00
Service IV	DC	1.00
	DW	1.00
	PL	0.00
	LL	0.00

Strength I will control, ∴
No need to include
Strength III at this point

Service I will control, ∴ No
need to include Service IV
at this point

Span Reactions		2 Beams		3 Beams	
		SER 1	STR 1	SER 1	STR 1
	DC	241.392	120.696	150.87	80.464
	DW	22.061	11.0305	16.54575	7.35366667
	PL	96.073	48.0365	84.063875	32.0243333
	LL	19.01	9.505	16.63375	6.33666667



CSiBridge Analysis Report

Prepared by
HNTB

Model Name: Ped_A1_Super Moments.bdb

2 October 2014

Contents

- 1. [Model geometry](#) 4
 - 1.1. [Joint coordinates](#) 4
 - 1.2. [Joint restraints](#) 4
 - 1.3. [Element connectivity](#) 5
- 2. [Material properties](#) 5
- 3. [Section properties](#) 6
 - 3.1. [Frames](#) 6
- 4. [Load patterns](#) 7
 - 4.1. [Definitions](#) 7
- 5. [Load cases](#) 7
 - 5.1. [Definitions](#) 7
 - 5.2. [Static case load assignments](#) 8
 - 5.3. [Response spectrum case load assignments](#) 8
- 6. [Load combinations](#) 8
- 7. [Structure results](#) 10
 - 7.1. [Mass summary](#) 10
 - 7.2. [Base reactions](#) 10
- 8. [Joint results](#) 11
- 9. [Frame results](#) 12
- 10. [Material take-off](#) 33
- 11. [Design preferences](#) 33
 - 11.1. [Aluminum design](#) 34
 - 11.2. [Cold formed design](#) 34

List of Figures

- [Figure 1: Finite element model](#) 4
- [Figure 2: Deformed shape](#) 10

List of Tables

- [Table 1: Joint Coordinates](#) 4
- [Table 2: Joint Restraint Assignments](#) 5
- [Table 3: Connectivity - Frame](#) 5
- [Table 4: Frame Section Assignments](#) 5
- [Table 5: Material Properties 02 - Basic Mechanical Properties](#) 6
- [Table 6: Material Properties 03a - Steel Data](#) 6
- [Table 7: Material Properties 03b - Concrete Data](#) 6
- [Table 8: Frame Section Properties 01 - General, Part 1 of 4](#) 6
- [Table 8: Frame Section Properties 01 - General, Part 2 of 4](#) 6
- [Table 8: Frame Section Properties 01 - General, Part 3 of 4](#) 7
- [Table 8: Frame Section Properties 01 - General, Part 4 of 4](#) 7
- [Table 9: Load Pattern Definitions](#) 7
- [Table 10: Load Case Definitions](#) 7
- [Table 11: Case - Static 1 - Load Assignments](#) 8
- [Table 12: Function - Response Spectrum - User](#) 8
- [Table 13: Combination Definitions](#) 8
- [Table 14: Assembled Joint Masses](#) 10
- [Table 15: Base Reactions](#) 11
- [Table 16: Joint Displacements](#) 11

Table 17: [Joint Reactions](#)..... 12
 Table 18: [Element Forces - Frames, Part 1 of 2](#)..... 12
 Table 18: [Element Forces - Frames, Part 2 of 2](#)..... 23
 Table 19: [Material List 2 - By Section Property](#)..... 33
 Table 20: [Preferences - Aluminum Design - AA-ASD 2000](#)..... 34
 Table 21: [Preferences - Cold Formed Design - AISI-ASD96](#)..... 34

1. Model geometry

This section provides model geometry information, including items such as joint coordinates, joint restraints, and element connectivity.

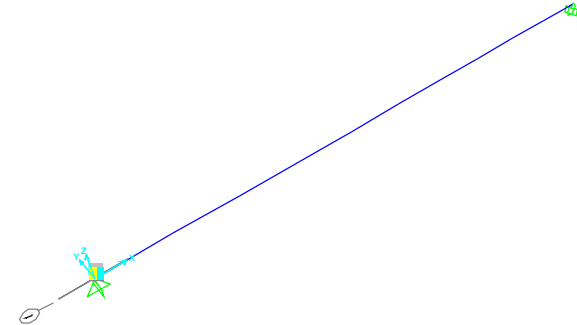


Figure 1: Finite element model

1.1. Joint coordinates

Table 1: Joint Coordinates

Table 1: Joint Coordinates					
Joint	CoordSys	CoordType	GlobalX ft	GlobalY ft	GlobalZ ft
1	GLOBAL	Cartesian	0.0000	0.0000	0.0000
2	GLOBAL	Cartesian	14.2330	0.0000	0.0000
3	GLOBAL	Cartesian	28.4660	0.0000	0.0000
4	GLOBAL	Cartesian	42.6990	0.0000	0.0000
5	GLOBAL	Cartesian	56.9320	0.0000	0.0000
6	GLOBAL	Cartesian	71.1650	0.0000	0.0000
7	GLOBAL	Cartesian	85.3980	0.0000	0.0000
8	GLOBAL	Cartesian	99.6310	0.0000	0.0000
9	GLOBAL	Cartesian	113.8640	0.0000	0.0000
10	GLOBAL	Cartesian	128.0970	0.0000	0.0000
11	GLOBAL	Cartesian	142.3300	0.0000	0.0000

1.2. Joint restraints

Table 2: Joint Restraint Assignments

Table 2: Joint Restraint Assignments						
Joint	U1	U2	U3	R1	R2	R3
1	Yes	Yes	Yes	Yes	No	Yes
11	No	Yes	Yes	Yes	No	Yes

1.3. Element connectivity

Table 3: Connectivity - Frame

Table 3: Connectivity - Frame			
Frame	JointI	JointJ	Length ft
1	1	2	14.2330
2	2	3	14.2330
3	3	4	14.2330
4	4	5	14.2330
5	5	6	14.2330
6	6	7	14.2330
7	7	8	14.2330
8	8	9	14.2330
9	9	10	14.2330
10	10	11	14.2330

Table 4: Frame Section Assignments

Table 4: Frame Section Assignments			
Frame	AnalSect	DesignSect	MatProp
1	FSEC2	N.A.	Default
2	FSEC2	N.A.	Default
3	FSEC2	N.A.	Default
4	FSEC2	N.A.	Default
5	FSEC2	N.A.	Default
6	FSEC2	N.A.	Default
7	FSEC2	N.A.	Default
8	FSEC2	N.A.	Default
9	FSEC2	N.A.	Default
10	FSEC2	N.A.	Default

2. Material properties

This section provides material property information for materials used in the model.

Table 5: Material Properties 02 - Basic Mechanical Properties

Table 5: Material Properties 02 - Basic Mechanical Properties						
Material	UnitWeight Kip/ft3	UnitMass Kip-s2/ft4	E1 Kip/ft2	G12 Kip/ft2	U12	A1 1/F
8500psi	1.5000E-01	4.6621E-03	724320.00	301800.00	0.200000	5.5000E-06
A709Gr50	4.9000E-01	1.5230E-02	4176000.0	1606153.8	0.300000	6.5000E-06
			0	5		

Table 6: Material Properties 03a - Steel Data

Table 6: Material Properties 03a - Steel Data			
Material	Fy Kip/ft2	Fu Kip/ft2	FinalSlope
A709Gr50	7200.00	9360.00	-0.100000

Table 7: Material Properties 03b - Concrete Data

Table 7: Material Properties 03b - Concrete Data		
Material	Fc Kip/ft2	FinalSlope
8500psi	1224.00	-0.100000

3. Section properties

This section provides section property information for objects used in the model.

3.1. Frames

Table 8: Frame Section Properties 01 - General, Part 1 of 4

Table 8: Frame Section Properties 01 - General, Part 1 of 4								
SectionName	Material	Shape	t3 ft	t2 ft	tf ft	tw ft	t2b ft	tfb ft
FSEC1	A709Gr50	I/Wide Flange	1.00000	0.41667	0.03167	0.02083	0.41667	0.03167
FSEC2	8500psi	General	1.50000	0.83333				

Table 8: Frame Section Properties 01 - General, Part 2 of 4

Table 8: Frame Section Properties 01 - General, Part 2 of 4								
SectionName	I23 ft4	Area ft2	TorsConst ft4	I33 ft4	I22 ft4	AS2 ft2	EccV2 ft	AS3 ft2
FSEC1	0.000000	0.0459	0.000011	0.007615	0.000382	0.0208		0.0220
FSEC2	0.000000	21.2569	0.000048	78.935648	302.03922	21.2569	0.00000	21.2569
					6			

Table 8: Frame Section Properties 01 - General, Part 3 of 4

Table 8: Frame Section Properties 01 - General, Part 3 of 4						
SectionName	S33 ft3	S22 ft3	Z33 ft3	Z22 ft3	R33 ft	R22 ft
FSEC1	0.015230	0.001836	0.017346	0.002850	0.40730	0.09128
FSEC2	0.000579	0.000579	0.000579	0.000579	0.08333	0.08333

Table 8: Frame Section Properties 01 - General, Part 4 of 4

Table 8: Frame Section Properties 01 - General, Part 4 of 4								
SectionName	AMod	A2Mod	A3Mod	JMod	I2Mod	I3Mod	MMod	WMod
FSEC1	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000
FSEC2	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000

4. Load patterns

This section provides loading information as applied to the model.

4.1. Definitions

Table 9: Load Pattern Definitions

Table 9: Load Pattern Definitions			
LoadPat	DesignType	SelfWtMult	AutoLoad
DC	DEAD	0.000000	
DW	DEAD	0.000000	
PL	PEDESTRIAN LL	0.000000	
LL	VEHICLE LIVE	0.000000	
DEAD	DEAD	1.000000	

5. Load cases

This section provides load case information.

5.1. Definitions

Table 10: Load Case Definitions

Table 10: Load Case Definitions						
Case	Type	InitialCond	ModalCase	BaseCase	DesActOpt	DesignAct
DEAD	LinStatic	Zero			Prog Det	Non-Composite
PL	LinStatic	Zero			Prog Det	Long-Term Composite

Table 10: Load Case Definitions

Case	Type	InitialCond	ModalCase	BaseCase	DesActOpt	DesignAct
LL	LinMoving	Zero			Prog Det	Short-Term Composite
DW	LinStatic	Zero			Prog Det	Non-Composite
DC	LinStatic	Zero			Prog Det	Non-Composite

5.2. Static case load assignments

Table 11: Case - Static 1 - Load Assignments

Table 11: Case - Static 1 - Load Assignments			
Case	LoadType	LoadName	LoadSF
DEAD	Load pattern	DEAD	1.000000
PL	Load pattern	PL	1.000000
DW	Load pattern	DW	1.000000
DC	Load pattern	DC	1.000000

5.3. Response spectrum case load assignments

Table 12: Function - Response Spectrum - User

Table 12: Function - Response Spectrum - User			
Name	Period Sec	Accel	FuncDamp
UNIFRS	0.000000	1.000000	0.050000
UNIFRS	1.000000	1.000000	

6. Load combinations

This section provides load combination information.

Table 13: Combination Definitions

Table 13: Combination Definitions			
ComboName	ComboType	CaseName	ScaleFactor
SERI	Envelope	LL	1.000000
SERI		PL	1.000000
SERI		DC	1.000000
SERI		DW	1.000000
STRI	Envelope	DC	1.250000
STRI		DW	1.500000
STRI		LL	1.750000

Table 13: Combination Definitions

ComboName	ComboType	CaseName	ScaleFactor
STRI		PL	1.750000
PL+LL	Linear Add	LL	1.000000
PL+LL		PL	1.000000

7. Structure results

This section provides structure results, including items such as structural periods and base reactions.

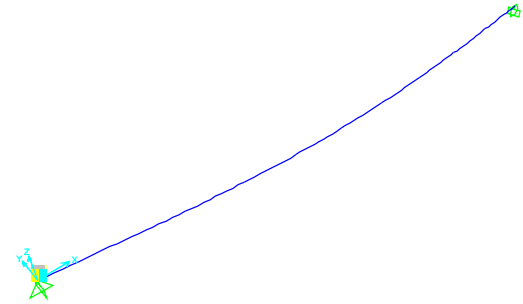


Figure 2: Deformed shape

7.1. Mass summary

Table 14: Assembled Joint Masses

Joint	MassSource	Table 14: Assembled Joint Masses					
		U1 Kip-s2/ft	U2 Kip-s2/ft	U3 Kip-s2/ft	R1 Kip-ft-s2	R2 Kip-ft-s2	R3 Kip-ft-s2
1	MSSSRC1	0.71	0.71	0.71	0.0000	0.0000	0.0000
2	MSSSRC1	1.41	1.41	1.41	0.0000	0.0000	0.0000
3	MSSSRC1	1.41	1.41	1.41	0.0000	0.0000	0.0000
4	MSSSRC1	1.41	1.41	1.41	0.0000	0.0000	0.0000
5	MSSSRC1	1.41	1.41	1.41	0.0000	0.0000	0.0000
6	MSSSRC1	1.41	1.41	1.41	0.0000	0.0000	0.0000
7	MSSSRC1	1.41	1.41	1.41	0.0000	0.0000	0.0000
8	MSSSRC1	1.41	1.41	1.41	0.0000	0.0000	0.0000
9	MSSSRC1	1.41	1.41	1.41	0.0000	0.0000	0.0000
10	MSSSRC1	1.41	1.41	1.41	0.0000	0.0000	0.0000
11	MSSSRC1	0.71	0.71	0.71	0.0000	0.0000	0.0000

7.2. Base reactions

Table 15: Base Reactions

Table 15: Base Reactions						
OutputCase	GlobalFX Kip	GlobalFY Kip	GlobalFZ Kip	GlobalMX Kip-ft	GlobalMY Kip-ft	GlobalMZ Kip-ft
DEAD	0.000	0.000	453.825	0.0000	-32296.4658	0.0000
PL	0.000	0.000	192.146	0.0000	-13674.0345	0.0000
DW	0.000	0.000	44.122	0.0000	-3139.9635	0.0000
DC	0.000	0.000	482.783	0.0000	-34357.2778	0.0000

8. Joint results

This section provides joint results, including items such as displacements and reactions.

Table 16: Joint Displacements

Table 16: Joint Displacements							
Joint	OutputCase	U1 ft	U2 ft	U3 ft	R1 Radians	R2 Radians	R3 Radians
1	DEAD	0.000000	0.000000	0.000000	0.000000	0.006700	0.000000
1	PL	0.000000	0.000000	0.000000	0.000000	0.002837	0.000000
1	DW	0.000000	0.000000	0.000000	0.000000	0.000651	0.000000
1	DC	0.000000	0.000000	0.000000	0.000000	0.007127	0.000000
2	DEAD	0.000000	0.000000	-0.094001	0.000000	0.006325	0.000000
2	PL	0.000000	0.000000	-0.039799	0.000000	0.002678	0.000000
2	DW	0.000000	0.000000	-0.009139	0.000000	0.000615	0.000000
2	DC	0.000000	0.000000	-0.099999	0.000000	0.006728	0.000000
3	DEAD	0.000000	0.000000	-0.177792	0.000000	0.005306	0.000000
3	PL	0.000000	0.000000	-0.075276	0.000000	0.002247	0.000000
3	DW	0.000000	0.000000	-0.017286	0.000000	0.000516	0.000000
3	DC	0.000000	0.000000	-0.189137	0.000000	0.005645	0.000000
4	DEAD	0.000000	0.000000	-0.243365	0.000000	0.003806	0.000000
4	PL	0.000000	0.000000	-0.103039	0.000000	0.001611	0.000000
4	DW	0.000000	0.000000	-0.023661	0.000000	0.000370	0.000000
4	DC	0.000000	0.000000	-0.258894	0.000000	0.004048	0.000000
5	DEAD	0.000000	0.000000	-0.284997	0.000000	0.001983	0.000000
5	PL	0.000000	0.000000	-0.120665	0.000000	0.000840	0.000000
5	DW	0.000000	0.000000	-0.027708	0.000000	0.000193	0.000000
5	DC	0.000000	0.000000	-0.303183	0.000000	0.002110	0.000000
6	DEAD	0.000000	0.000000	-0.299256	0.000000	0.000000	0.000000
6	PL	0.000000	0.000000	-0.126702	0.000000	9.483E-20	0.000000
6	DW	0.000000	0.000000	-0.029095	0.000000	1.581E-20	0.000000
6	DC	0.000000	0.000000	-0.318352	0.000000	6.322E-20	0.000000
7	DEAD	0.000000	0.000000	-0.284997	0.000000	-0.001983	0.000000
7	PL	0.000000	0.000000	-0.120665	0.000000	-0.000840	0.000000
7	DW	0.000000	0.000000	-0.027708	0.000000	-0.000193	0.000000
7	DC	0.000000	0.000000	-0.303183	0.000000	-0.002110	0.000000
8	DEAD	0.000000	0.000000	-0.243365	0.000000	-0.003806	0.000000
8	PL	0.000000	0.000000	-0.103039	0.000000	-0.001611	0.000000
8	DW	0.000000	0.000000	-0.023661	0.000000	-0.000370	0.000000
8	DC	0.000000	0.000000	-0.258894	0.000000	-0.004048	0.000000
9	DEAD	0.000000	0.000000	-0.177792	0.000000	-0.005306	0.000000
9	PL	0.000000	0.000000	-0.075276	0.000000	-0.002247	0.000000
9	DW	0.000000	0.000000	-0.017286	0.000000	-0.000516	0.000000
9	DC	0.000000	0.000000	-0.189137	0.000000	-0.005645	0.000000

Table 16: Joint Displacements

Joint	OutputCase	U1 ft	U2 ft	U3 ft	R1 Radians	R2 Radians	R3 Radians
10	DEAD	0.000000	0.000000	-0.094001	0.000000	-0.006325	0.000000
10	PL	0.000000	0.000000	-0.039799	0.000000	-0.002678	0.000000
10	DW	0.000000	0.000000	-0.009139	0.000000	-0.000615	0.000000
10	DC	0.000000	0.000000	-0.099999	0.000000	-0.006728	0.000000
11	DEAD	0.000000	0.000000	0.000000	0.000000	-0.006700	0.000000
11	PL	0.000000	0.000000	0.000000	0.000000	-0.002837	0.000000
11	DW	0.000000	0.000000	0.000000	0.000000	-0.000651	0.000000
11	DC	0.000000	0.000000	0.000000	0.000000	-0.007127	0.000000

Table 17: Joint Reactions

Table 17: Joint Reactions							
Joint	OutputCase	F1 Kip	F2 Kip	F3 Kip	M1 Kip-ft	M2 Kip-ft	M3 Kip-ft
1	DEAD	0.000	0.000	226.913	0.0000	0.0000	0.0000
1	PL	0.000	0.000	96.073	0.0000	0.0000	0.0000
1	DW	0.000	0.000	22.061	0.0000	0.0000	0.0000
1	DC	0.000	0.000	241.392	0.0000	0.0000	0.0000
11	DEAD	0.000	0.000	226.913	0.0000	0.0000	0.0000
11	PL	0.000	0.000	96.073	0.0000	0.0000	0.0000
11	DW	0.000	0.000	22.061	0.0000	0.0000	0.0000
11	DC	0.000	0.000	241.392	0.0000	0.0000	0.0000

9. Frame results

This section provides frame force results.

Table 18: Element Forces - Frames, Part 1 of 2

Table 18: Element Forces - Frames, Part 1 of 2					
Frame	Station ft	OutputCase	P Kip	V2 Kip	V3 Kip
1	0.0000	DEAD	0.000	-226.913	0.000
1	0.0083	DEAD	0.000	-226.886	0.000
1	0.0083	DEAD	0.000	-226.886	0.000
1	1.7854	DEAD	0.000	-221.220	0.000
1	3.5624	DEAD	0.000	-215.554	0.000
1	5.3395	DEAD	0.000	-209.887	0.000
1	7.1165	DEAD	0.000	-204.221	0.000
1	7.1165	DEAD	0.000	-204.221	0.000
1	8.8935	DEAD	0.000	-198.555	0.000
1	10.6706	DEAD	0.000	-192.889	0.000
1	12.4476	DEAD	0.000	-187.223	0.000
1	14.2247	DEAD	0.000	-181.557	0.000
1	14.2247	DEAD	0.000	-181.557	0.000
1	14.2330	DEAD	0.000	-181.530	0.000
1	0.0000	PL	0.000	-96.073	0.000
1	0.0083	PL	0.000	-96.062	0.000
1	0.0083	PL	0.000	-96.062	0.000
1	1.7854	PL	0.000	-93.662	0.000

Table 18: Element Forces - Frames, Part 1 of 2

Frame	Station ft	OutputCase	P Kip	V2 Kip	V3 Kip
1	3.5624	PL	0.000	-91.263	0.000
1	5.3395	PL	0.000	-88.864	0.000
1	7.1165	PL	0.000	-86.465	0.000
1	7.1165	PL	0.000	-86.465	0.000
1	8.8935	PL	0.000	-84.066	0.000
1	10.6706	PL	0.000	-81.667	0.000
1	12.4476	PL	0.000	-79.268	0.000
1	14.2247	PL	0.000	-76.869	0.000
1	14.2247	PL	0.000	-76.869	0.000
1	14.2330	PL	0.000	-76.858	0.000
1	0.0000	DW	0.000	-22.061	0.000
1	0.0083	DW	0.000	-22.059	0.000
1	0.0083	DW	0.000	-22.059	0.000
1	1.7854	DW	0.000	-21.508	0.000
1	3.5624	DW	0.000	-20.957	0.000
1	5.3395	DW	0.000	-20.406	0.000
1	7.1165	DW	0.000	-19.855	0.000
1	7.1165	DW	0.000	-19.855	0.000
1	8.8935	DW	0.000	-19.304	0.000
1	10.6706	DW	0.000	-18.753	0.000
1	12.4476	DW	0.000	-18.202	0.000
1	14.2247	DW	0.000	-17.652	0.000
1	14.2247	DW	0.000	-17.652	0.000
1	14.2330	DW	0.000	-17.649	0.000
1	0.0000	DC	0.000	-241.392	0.000
1	0.0083	DC	0.000	-241.363	0.000
1	0.0083	DC	0.000	-241.363	0.000
1	1.7854	DC	0.000	-235.336	0.000
1	3.5624	DC	0.000	-229.308	0.000
1	5.3395	DC	0.000	-223.280	0.000
1	7.1165	DC	0.000	-217.253	0.000
1	7.1165	DC	0.000	-217.253	0.000
1	8.8935	DC	0.000	-211.225	0.000
1	10.6706	DC	0.000	-205.197	0.000
1	12.4476	DC	0.000	-199.169	0.000
1	14.2247	DC	0.000	-193.142	0.000
1	14.2247	DC	0.000	-193.142	0.000
1	14.2330	DC	0.000	-193.113	0.000
2	0.0000	DEAD	0.000	-181.530	0.000
2	0.0083	DEAD	0.000	-181.503	0.000
2	1.7854	DEAD	0.000	-175.837	0.000
2	3.5624	DEAD	0.000	-170.171	0.000
2	5.3395	DEAD	0.000	-164.505	0.000
2	7.1165	DEAD	0.000	-158.839	0.000
2	7.1165	DEAD	0.000	-158.839	0.000
2	8.8935	DEAD	0.000	-153.173	0.000
2	10.6706	DEAD	0.000	-147.506	0.000
2	12.4476	DEAD	0.000	-141.840	0.000
2	14.2247	DEAD	0.000	-136.174	0.000
2	14.2247	DEAD	0.000	-136.174	0.000
2	14.2330	DEAD	0.000	-136.148	0.000
2	0.0000	PL	0.000	-76.858	0.000
2	0.0083	PL	0.000	-76.847	0.000

Table 18: Element Forces - Frames, Part 1 of 2

Frame	Station ft	OutputCase	P Kip	V2 Kip	V3 Kip
2	0.0083	PL	0.000	-76.847	0.000
2	1.7854	PL	0.000	-74.448	0.000
2	3.5624	PL	0.000	-72.049	0.000
2	5.3395	PL	0.000	-69.650	0.000
2	7.1165	PL	0.000	-67.251	0.000
2	7.1165	PL	0.000	-67.251	0.000
2	8.8935	PL	0.000	-64.852	0.000
2	10.6706	PL	0.000	-62.453	0.000
2	12.4476	PL	0.000	-60.054	0.000
2	14.2247	PL	0.000	-57.655	0.000
2	14.2247	PL	0.000	-57.655	0.000
2	14.2330	PL	0.000	-57.644	0.000
2	0.0000	DW	0.000	-17.649	0.000
2	0.0083	DW	0.000	-17.646	0.000
2	0.0083	DW	0.000	-17.646	0.000
2	1.7854	DW	0.000	-17.095	0.000
2	3.5624	DW	0.000	-16.545	0.000
2	5.3395	DW	0.000	-15.994	0.000
2	7.1165	DW	0.000	-15.443	0.000
2	7.1165	DW	0.000	-15.443	0.000
2	8.8935	DW	0.000	-14.892	0.000
2	10.6706	DW	0.000	-14.341	0.000
2	12.4476	DW	0.000	-13.790	0.000
2	14.2247	DW	0.000	-13.239	0.000
2	14.2247	DW	0.000	-13.239	0.000
2	14.2330	DW	0.000	-13.237	0.000
2	0.0000	DC	0.000	-193.113	0.000
2	0.0083	DC	0.000	-193.085	0.000
2	0.0083	DC	0.000	-193.085	0.000
2	1.7854	DC	0.000	-187.057	0.000
2	3.5624	DC	0.000	-181.030	0.000
2	5.3395	DC	0.000	-175.002	0.000
2	7.1165	DC	0.000	-168.974	0.000
2	7.1165	DC	0.000	-168.974	0.000
2	8.8935	DC	0.000	-162.946	0.000
2	10.6706	DC	0.000	-156.919	0.000
2	12.4476	DC	0.000	-150.891	0.000
2	14.2247	DC	0.000	-144.863	0.000
2	14.2247	DC	0.000	-144.863	0.000
2	14.2330	DC	0.000	-144.835	0.000
3	0.0000	DEAD	0.000	-136.148	0.000
3	0.0083	DEAD	0.000	-136.121	0.000
3	0.0083	DEAD	0.000	-136.121	0.000
3	1.7854	DEAD	0.000	-130.455	0.000
3	3.5624	DEAD	0.000	-124.789	0.000
3	5.3395	DEAD	0.000	-119.122	0.000
3	7.1165	DEAD	0.000	-113.456	0.000
3	7.1165	DEAD	0.000	-113.456	0.000
3	8.8935	DEAD	0.000	-107.790	0.000
3	10.6706	DEAD	0.000	-102.124	0.000
3	12.4476	DEAD	0.000	-96.458	0.000
3	14.2247	DEAD	0.000	-90.792	0.000
3	14.2247	DEAD	0.000	-90.792	0.000
3	14.2330	DEAD	0.000	-90.765	0.000

Table 18: Element Forces - Frames, Part 1 of 2

Frame	Station ft	OutputCase	P Kip	V2 Kip	V3 Kip
3	0.0000	PL	0.000	-57.644	0.000
3	0.0083	PL	0.000	-57.632	0.000
3	0.0083	PL	0.000	-57.632	0.000
3	1.7854	PL	0.000	-55.233	0.000
3	3.5624	PL	0.000	-52.834	0.000
3	5.3395	PL	0.000	-50.435	0.000
3	7.1165	PL	0.000	-48.036	0.000
3	7.1165	PL	0.000	-48.036	0.000
3	8.8935	PL	0.000	-45.637	0.000
3	10.6706	PL	0.000	-43.238	0.000
3	12.4476	PL	0.000	-40.839	0.000
3	14.2247	PL	0.000	-38.440	0.000
3	14.2247	PL	0.000	-38.440	0.000
3	14.2330	PL	0.000	-38.429	0.000
3	0.0000	DW	0.000	-13.237	0.000
3	0.0083	DW	0.000	-13.234	0.000
3	0.0083	DW	0.000	-13.234	0.000
3	1.7854	DW	0.000	-12.683	0.000
3	3.5624	DW	0.000	-12.132	0.000
3	5.3395	DW	0.000	-11.581	0.000
3	7.1165	DW	0.000	-11.031	0.000
3	7.1165	DW	0.000	-11.031	0.000
3	8.8935	DW	0.000	-10.480	0.000
3	10.6706	DW	0.000	-9.929	0.000
3	12.4476	DW	0.000	-9.378	0.000
3	14.2247	DW	0.000	-8.827	0.000
3	14.2247	DW	0.000	-8.827	0.000
3	14.2330	DW	0.000	-8.824	0.000
3	0.0000	DC	0.000	-144.835	0.000
3	0.0083	DC	0.000	-144.807	0.000
3	0.0083	DC	0.000	-144.807	0.000
3	1.7854	DC	0.000	-138.779	0.000
3	3.5624	DC	0.000	-132.751	0.000
3	5.3395	DC	0.000	-126.724	0.000
3	7.1165	DC	0.000	-120.696	0.000
3	7.1165	DC	0.000	-120.696	0.000
3	8.8935	DC	0.000	-114.668	0.000
3	10.6706	DC	0.000	-108.640	0.000
3	12.4476	DC	0.000	-102.613	0.000
3	14.2247	DC	0.000	-96.585	0.000
3	14.2247	DC	0.000	-96.585	0.000
3	14.2330	DC	0.000	-96.557	0.000
4	0.0000	DEAD	0.000	-90.765	0.000
4	0.0083	DEAD	0.000	-90.738	0.000
4	0.0083	DEAD	0.000	-90.738	0.000
4	1.7854	DEAD	0.000	-85.072	0.000
4	3.5624	DEAD	0.000	-79.406	0.000
4	5.3395	DEAD	0.000	-73.740	0.000
4	7.1165	DEAD	0.000	-68.074	0.000
4	7.1165	DEAD	0.000	-68.074	0.000
4	8.8935	DEAD	0.000	-62.408	0.000
4	10.6706	DEAD	0.000	-56.741	0.000
4	12.4476	DEAD	0.000	-51.075	0.000
4	14.2247	DEAD	0.000	-45.409	0.000

Table 18: Element Forces - Frames, Part 1 of 2

Frame	Station ft	OutputCase	P Kip	V2 Kip	V3 Kip
4	14.2247	DEAD	0.000	-45.409	0.000
4	14.2330	DEAD	0.000	-45.383	0.000
4	0.0000	PL	0.000	-38.429	0.000
4	0.0083	PL	0.000	-38.418	0.000
4	0.0083	PL	0.000	-38.418	0.000
4	1.7854	PL	0.000	-36.019	0.000
4	3.5624	PL	0.000	-33.620	0.000
4	5.3395	PL	0.000	-31.221	0.000
4	7.1165	PL	0.000	-28.822	0.000
4	7.1165	PL	0.000	-28.822	0.000
4	8.8935	PL	0.000	-26.423	0.000
4	10.6706	PL	0.000	-24.024	0.000
4	12.4476	PL	0.000	-21.625	0.000
4	14.2247	PL	0.000	-19.226	0.000
4	14.2247	PL	0.000	-19.226	0.000
4	14.2330	PL	0.000	-19.215	0.000
4	0.0000	DW	0.000	-8.824	0.000
4	0.0083	DW	0.000	-8.822	0.000
4	0.0083	DW	0.000	-8.822	0.000
4	1.7854	DW	0.000	-8.271	0.000
4	3.5624	DW	0.000	-7.720	0.000
4	5.3395	DW	0.000	-7.169	0.000
4	7.1165	DW	0.000	-6.618	0.000
4	7.1165	DW	0.000	-6.618	0.000
4	8.8935	DW	0.000	-6.067	0.000
4	10.6706	DW	0.000	-5.517	0.000
4	12.4476	DW	0.000	-4.966	0.000
4	14.2247	DW	0.000	-4.415	0.000
4	14.2247	DW	0.000	-4.415	0.000
4	14.2330	DW	0.000	-4.412	0.000
4	0.0000	DC	0.000	-96.557	0.000
4	0.0083	DC	0.000	-96.528	0.000
4	0.0083	DC	0.000	-96.528	0.000
4	1.7854	DC	0.000	-90.501	0.000
4	3.5624	DC	0.000	-84.473	0.000
4	5.3395	DC	0.000	-78.445	0.000
4	7.1165	DC	0.000	-72.418	0.000
4	7.1165	DC	0.000	-72.418	0.000
4	8.8935	DC	0.000	-66.390	0.000
4	10.6706	DC	0.000	-60.362	0.000
4	12.4476	DC	0.000	-54.334	0.000
4	14.2247	DC	0.000	-48.307	0.000
4	14.2247	DC	0.000	-48.307	0.000
4	14.2330	DC	0.000	-48.278	0.000
5	0.0000	DEAD	0.000	-45.383	0.000
5	0.0083	DEAD	0.000	-45.356	0.000
5	0.0083	DEAD	0.000	-45.356	0.000
5	1.7854	DEAD	0.000	-39.690	0.000
5	3.5624	DEAD	0.000	-34.024	0.000
5	5.3395	DEAD	0.000	-28.357	0.000
5	7.1165	DEAD	0.000	-22.691	0.000
5	7.1165	DEAD	0.000	-22.691	0.000
5	8.8935	DEAD	0.000	-17.025	0.000
5	10.6706	DEAD	0.000	-11.359	0.000

Table 18: Element Forces - Frames, Part 1 of 2

Frame	Station ft	OutputCase	P Kip	V2 Kip	V3 Kip
5	12.4476	DEAD	0.000	-5.693	0.000
5	14.2247	DEAD	0.000	-0.027	0.000
5	14.2247	DEAD	0.000	-0.027	0.000
5	14.2330	DEAD	0.000	-8.179E-13	0.000
5	0.0000	PL	0.000	-19.215	0.000
5	0.0083	PL	0.000	-19.203	0.000
5	0.0083	PL	0.000	-19.203	0.000
5	1.7854	PL	0.000	-16.804	0.000
5	3.5624	PL	0.000	-14.405	0.000
5	5.3395	PL	0.000	-12.006	0.000
5	7.1165	PL	0.000	-9.607	0.000
5	7.1165	PL	0.000	-9.607	0.000
5	8.8935	PL	0.000	-7.208	0.000
5	10.6706	PL	0.000	-4.809	0.000
5	12.4476	PL	0.000	-2.410	0.000
5	14.2247	PL	0.000	-0.011	0.000
5	14.2247	PL	0.000	-0.011	0.000
5	14.2330	PL	0.000	-5.947E-13	0.000
5	0.0000	DW	0.000	-4.412	0.000
5	0.0083	DW	0.000	-4.410	0.000
5	0.0083	DW	0.000	-4.410	0.000
5	1.7854	DW	0.000	-3.859	0.000
5	3.5624	DW	0.000	-3.308	0.000
5	5.3395	DW	0.000	-2.757	0.000
5	7.1165	DW	0.000	-2.206	0.000
5	7.1165	DW	0.000	-2.206	0.000
5	8.8935	DW	0.000	-1.655	0.000
5	10.6706	DW	0.000	-1.104	0.000
5	12.4476	DW	0.000	-0.553	0.000
5	14.2247	DW	0.000	-2.583E-03	0.000
5	14.2247	DW	0.000	-2.583E-03	0.000
5	14.2330	DW	0.000	9.247E-14	0.000
5	0.0000	DC	0.000	-48.278	0.000
5	0.0083	DC	0.000	-48.250	0.000
5	0.0083	DC	0.000	-48.250	0.000
5	1.7854	DC	0.000	-42.222	0.000
5	3.5624	DC	0.000	-36.195	0.000
5	5.3395	DC	0.000	-30.167	0.000
5	7.1165	DC	0.000	-24.139	0.000
5	7.1165	DC	0.000	-24.139	0.000
5	8.8935	DC	0.000	-18.111	0.000
5	10.6706	DC	0.000	-12.084	0.000
5	12.4476	DC	0.000	-6.056	0.000
5	14.2247	DC	0.000	-0.028	0.000
5	14.2247	DC	0.000	-0.028	0.000
5	14.2330	DC	0.000	4.257E-12	0.000
6	0.0000	DEAD	0.000	7.276E-12	0.000
6	0.0083	DEAD	0.000	0.027	0.000
6	0.0083	DEAD	0.000	0.027	0.000
6	1.7854	DEAD	0.000	5.693	0.000
6	3.5624	DEAD	0.000	11.359	0.000
6	5.3395	DEAD	0.000	17.025	0.000
6	7.1165	DEAD	0.000	22.691	0.000
6	7.1165	DEAD	0.000	22.691	0.000

Table 18: Element Forces - Frames, Part 1 of 2

Frame	Station ft	OutputCase	P Kip	V2 Kip	V3 Kip
6	8.8935	DEAD	0.000	28.357	0.000
6	10.6706	DEAD	0.000	34.024	0.000
6	12.4476	DEAD	0.000	39.690	0.000
6	14.2247	DEAD	0.000	45.356	0.000
6	14.2247	DEAD	0.000	45.356	0.000
6	14.2330	DEAD	0.000	45.383	0.000
6	0.0000	PL	0.000	0.000	0.000
6	0.0083	PL	0.000	0.011	0.000
6	0.0083	PL	0.000	0.011	0.000
6	1.7854	PL	0.000	2.410	0.000
6	3.5624	PL	0.000	4.809	0.000
6	5.3395	PL	0.000	7.208	0.000
6	7.1165	PL	0.000	9.607	0.000
6	7.1165	PL	0.000	9.607	0.000
6	8.8935	PL	0.000	12.006	0.000
6	10.6706	PL	0.000	14.405	0.000
6	12.4476	PL	0.000	16.804	0.000
6	14.2247	PL	0.000	19.203	0.000
6	14.2247	PL	0.000	19.203	0.000
6	14.2330	PL	0.000	19.215	0.000
6	0.0000	DW	0.000	0.000	0.000
6	0.0083	DW	0.000	2.583E-03	0.000
6	0.0083	DW	0.000	2.583E-03	0.000
6	1.7854	DW	0.000	0.553	0.000
6	3.5624	DW	0.000	1.104	0.000
6	5.3395	DW	0.000	1.655	0.000
6	7.1165	DW	0.000	2.206	0.000
6	7.1165	DW	0.000	2.206	0.000
6	8.8935	DW	0.000	2.757	0.000
6	10.6706	DW	0.000	3.308	0.000
6	12.4476	DW	0.000	3.859	0.000
6	14.2247	DW	0.000	4.410	0.000
6	14.2247	DW	0.000	4.410	0.000
6	14.2330	DW	0.000	4.412	0.000
6	0.0000	DC	0.000	0.000	0.000
6	0.0083	DC	0.000	0.028	0.000
6	0.0083	DC	0.000	0.028	0.000
6	1.7854	DC	0.000	6.056	0.000
6	3.5624	DC	0.000	12.084	0.000
6	5.3395	DC	0.000	18.111	0.000
6	7.1165	DC	0.000	24.139	0.000
6	7.1165	DC	0.000	24.139	0.000
6	8.8935	DC	0.000	30.167	0.000
6	10.6706	DC	0.000	36.195	0.000
6	12.4476	DC	0.000	42.222	0.000
6	14.2247	DC	0.000	48.250	0.000
6	14.2247	DC	0.000	48.250	0.000
6	14.2330	DC	0.000	48.278	0.000
7	0.0000	DEAD	0.000	45.383	0.000
7	0.0083	DEAD	0.000	45.409	0.000
7	0.0083	DEAD	0.000	45.409	0.000
7	1.7854	DEAD	0.000	51.075	0.000
7	3.5624	DEAD	0.000	56.741	0.000
7	5.3395	DEAD	0.000	62.408	0.000

Table 18: Element Forces - Frames, Part 1 of 2

Frame	Station ft	OutputCase	P Kip	V2 Kip	V3 Kip
7	7.1165	DEAD	0.000	68.074	0.000
7	7.1165	DEAD	0.000	68.074	0.000
7	8.8935	DEAD	0.000	73.740	0.000
7	10.6706	DEAD	0.000	79.406	0.000
7	12.4476	DEAD	0.000	85.072	0.000
7	14.2247	DEAD	0.000	90.738	0.000
7	14.2247	DEAD	0.000	90.738	0.000
7	14.2330	DEAD	0.000	90.765	0.000
7	0.0000	PL	0.000	19.215	0.000
7	0.0083	PL	0.000	19.226	0.000
7	0.0083	PL	0.000	19.226	0.000
7	1.7854	PL	0.000	21.625	0.000
7	3.5624	PL	0.000	24.024	0.000
7	5.3395	PL	0.000	26.423	0.000
7	7.1165	PL	0.000	28.822	0.000
7	7.1165	PL	0.000	28.822	0.000
7	8.8935	PL	0.000	31.221	0.000
7	10.6706	PL	0.000	33.620	0.000
7	12.4476	PL	0.000	36.019	0.000
7	14.2247	PL	0.000	38.418	0.000
7	14.2247	PL	0.000	38.418	0.000
7	14.2330	PL	0.000	38.429	0.000
7	0.0000	DW	0.000	4.412	0.000
7	0.0083	DW	0.000	4.415	0.000
7	0.0083	DW	0.000	4.415	0.000
7	1.7854	DW	0.000	4.966	0.000
7	3.5624	DW	0.000	5.517	0.000
7	5.3395	DW	0.000	6.067	0.000
7	7.1165	DW	0.000	6.618	0.000
7	7.1165	DW	0.000	6.618	0.000
7	8.8935	DW	0.000	7.169	0.000
7	10.6706	DW	0.000	7.720	0.000
7	12.4476	DW	0.000	8.271	0.000
7	14.2247	DW	0.000	8.822	0.000
7	14.2247	DW	0.000	8.822	0.000
7	14.2330	DW	0.000	8.824	0.000
7	0.0000	DC	0.000	48.278	0.000
7	0.0083	DC	0.000	48.307	0.000
7	0.0083	DC	0.000	48.307	0.000
7	1.7854	DC	0.000	54.334	0.000
7	3.5624	DC	0.000	60.362	0.000
7	5.3395	DC	0.000	66.390	0.000
7	7.1165	DC	0.000	72.418	0.000
7	7.1165	DC	0.000	72.418	0.000
7	8.8935	DC	0.000	78.445	0.000
7	10.6706	DC	0.000	84.473	0.000
7	12.4476	DC	0.000	90.501	0.000
7	14.2247	DC	0.000	96.528	0.000
7	14.2247	DC	0.000	96.528	0.000
7	14.2330	DC	0.000	96.557	0.000
8	0.0000	DEAD	0.000	90.765	0.000
8	0.0083	DEAD	0.000	90.792	0.000
8	0.0083	DEAD	0.000	90.792	0.000
8	1.7854	DEAD	0.000	96.458	0.000

Table 18: Element Forces - Frames, Part 1 of 2

Frame	Station ft	OutputCase	P Kip	V2 Kip	V3 Kip
8	3.5624	DEAD	0.000	102.124	0.000
8	5.3395	DEAD	0.000	107.790	0.000
8	7.1165	DEAD	0.000	113.456	0.000
8	7.1165	DEAD	0.000	113.456	0.000
8	8.8935	DEAD	0.000	119.122	0.000
8	10.6706	DEAD	0.000	124.789	0.000
8	12.4476	DEAD	0.000	130.455	0.000
8	14.2247	DEAD	0.000	136.121	0.000
8	14.2247	DEAD	0.000	136.121	0.000
8	14.2330	DEAD	0.000	136.148	0.000
8	0.0000	PL	0.000	38.429	0.000
8	0.0083	PL	0.000	38.440	0.000
8	0.0083	PL	0.000	38.440	0.000
8	1.7854	PL	0.000	40.839	0.000
8	3.5624	PL	0.000	43.238	0.000
8	5.3395	PL	0.000	45.637	0.000
8	7.1165	PL	0.000	48.036	0.000
8	7.1165	PL	0.000	48.036	0.000
8	8.8935	PL	0.000	50.435	0.000
8	10.6706	PL	0.000	52.834	0.000
8	12.4476	PL	0.000	55.233	0.000
8	14.2247	PL	0.000	57.632	0.000
8	14.2247	PL	0.000	57.632	0.000
8	14.2330	PL	0.000	57.644	0.000
8	0.0000	DW	0.000	8.824	0.000
8	0.0083	DW	0.000	8.827	0.000
8	0.0083	DW	0.000	8.827	0.000
8	1.7854	DW	0.000	9.378	0.000
8	3.5624	DW	0.000	9.929	0.000
8	5.3395	DW	0.000	10.480	0.000
8	7.1165	DW	0.000	11.031	0.000
8	7.1165	DW	0.000	11.031	0.000
8	8.8935	DW	0.000	11.581	0.000
8	10.6706	DW	0.000	12.132	0.000
8	12.4476	DW	0.000	12.683	0.000
8	14.2247	DW	0.000	13.234	0.000
8	14.2247	DW	0.000	13.234	0.000
8	14.2330	DW	0.000	13.237	0.000
8	0.0000	DC	0.000	96.557	0.000
8	0.0083	DC	0.000	96.585	0.000
8	0.0083	DC	0.000	96.585	0.000
8	1.7854	DC	0.000	102.613	0.000
8	3.5624	DC	0.000	108.640	0.000
8	5.3395	DC	0.000	114.668	0.000
8	7.1165	DC	0.000	120.696	0.000
8	7.1165	DC	0.000	120.696	0.000
8	8.8935	DC	0.000	126.724	0.000
8	10.6706	DC	0.000	132.751	0.000
8	12.4476	DC	0.000	138.779	0.000
8	14.2247	DC	0.000	144.807	0.000
8	14.2247	DC	0.000	144.807	0.000
8	14.2330	DC	0.000	144.835	0.000
9	0.0000	DEAD	0.000	136.148	0.000
9	0.0083	DEAD	0.000	136.174	0.000

Table 18: Element Forces - Frames, Part 1 of 2

Frame	Station ft	OutputCase	P Kip	V2 Kip	V3 Kip
9	0.0083	DEAD	0.000	136.174	0.000
9	1.7854	DEAD	0.000	141.840	0.000
9	3.5624	DEAD	0.000	147.506	0.000
9	5.3395	DEAD	0.000	153.173	0.000
9	7.1165	DEAD	0.000	158.839	0.000
9	7.1165	DEAD	0.000	158.839	0.000
9	8.8935	DEAD	0.000	164.505	0.000
9	10.6706	DEAD	0.000	170.171	0.000
9	12.4476	DEAD	0.000	175.837	0.000
9	14.2247	DEAD	0.000	181.503	0.000
9	14.2247	DEAD	0.000	181.503	0.000
9	14.2330	DEAD	0.000	181.530	0.000
9	0.0000	PL	0.000	57.644	0.000
9	0.0083	PL	0.000	57.655	0.000
9	0.0083	PL	0.000	57.655	0.000
9	1.7854	PL	0.000	60.054	0.000
9	3.5624	PL	0.000	62.453	0.000
9	5.3395	PL	0.000	64.852	0.000
9	7.1165	PL	0.000	67.251	0.000
9	7.1165	PL	0.000	67.251	0.000
9	8.8935	PL	0.000	69.650	0.000
9	10.6706	PL	0.000	72.049	0.000
9	12.4476	PL	0.000	74.448	0.000
9	14.2247	PL	0.000	76.847	0.000
9	14.2247	PL	0.000	76.847	0.000
9	14.2330	PL	0.000	76.858	0.000
9	0.0000	DW	0.000	13.237	0.000
9	0.0083	DW	0.000	13.239	0.000
9	0.0083	DW	0.000	13.239	0.000
9	1.7854	DW	0.000	13.790	0.000
9	3.5624	DW	0.000	14.341	0.000
9	5.3395	DW	0.000	14.892	0.000
9	7.1165	DW	0.000	15.443	0.000
9	7.1165	DW	0.000	15.443	0.000
9	8.8935	DW	0.000	15.994	0.000
9	10.6706	DW	0.000	16.545	0.000
9	12.4476	DW	0.000	17.095	0.000
9	14.2247	DW	0.000	17.646	0.000
9	14.2247	DW	0.000	17.646	0.000
9	14.2330	DW	0.000	17.649	0.000
9	0.0000	DC	0.000	144.835	0.000
9	0.0083	DC	0.000	144.863	0.000
9	0.0083	DC	0.000	144.863	0.000
9	1.7854	DC	0.000	150.891	0.000
9	3.5624	DC	0.000	156.919	0.000
9	5.3395	DC	0.000	162.946	0.000
9	7.1165	DC	0.000	168.974	0.000
9	7.1165	DC	0.000	168.974	0.000
9	8.8935	DC	0.000	175.002	0.000
9	10.6706	DC	0.000	181.030	0.000
9	12.4476	DC	0.000	187.057	0.000
9	14.2247	DC	0.000	193.085	0.000
9	14.2247	DC	0.000	193.085	0.000
9	14.2330	DC	0.000	193.113	0.000

Table 18: Element Forces - Frames, Part 1 of 2

Frame	Station ft	OutputCase	P Kip	V2 Kip	V3 Kip
10	0.0000	DEAD	0.000	181.530	0.000
10	0.0083	DEAD	0.000	181.557	0.000
10	0.0083	DEAD	0.000	181.557	0.000
10	1.7854	DEAD	0.000	187.223	0.000
10	3.5624	DEAD	0.000	192.889	0.000
10	5.3395	DEAD	0.000	198.555	0.000
10	7.1165	DEAD	0.000	204.221	0.000
10	7.1165	DEAD	0.000	204.221	0.000
10	8.8935	DEAD	0.000	209.887	0.000
10	10.6706	DEAD	0.000	215.554	0.000
10	12.4476	DEAD	0.000	221.220	0.000
10	14.2247	DEAD	0.000	226.886	0.000
10	14.2247	DEAD	0.000	226.886	0.000
10	14.2330	DEAD	0.000	226.913	0.000
10	0.0000	PL	0.000	76.858	0.000
10	0.0083	PL	0.000	76.869	0.000
10	0.0083	PL	0.000	76.869	0.000
10	1.7854	PL	0.000	79.268	0.000
10	3.5624	PL	0.000	81.667	0.000
10	5.3395	PL	0.000	84.066	0.000
10	7.1165	PL	0.000	86.465	0.000
10	7.1165	PL	0.000	86.465	0.000
10	8.8935	PL	0.000	88.864	0.000
10	10.6706	PL	0.000	91.263	0.000
10	12.4476	PL	0.000	93.662	0.000
10	14.2247	PL	0.000	96.062	0.000
10	14.2247	PL	0.000	96.062	0.000
10	14.2330	PL	0.000	96.073	0.000
10	0.0000	DW	0.000	17.649	0.000
10	0.0083	DW	0.000	17.652	0.000
10	0.0083	DW	0.000	17.652	0.000
10	1.7854	DW	0.000	18.202	0.000
10	3.5624	DW	0.000	18.753	0.000
10	5.3395	DW	0.000	19.304	0.000
10	7.1165	DW	0.000	19.855	0.000
10	7.1165	DW	0.000	19.855	0.000
10	8.8935	DW	0.000	20.406	0.000
10	10.6706	DW	0.000	20.957	0.000
10	12.4476	DW	0.000	21.508	0.000
10	14.2247	DW	0.000	22.059	0.000
10	14.2247	DW	0.000	22.059	0.000
10	14.2330	DW	0.000	22.061	0.000
10	0.0000	DC	0.000	193.113	0.000
10	0.0083	DC	0.000	193.142	0.000
10	0.0083	DC	0.000	193.142	0.000
10	1.7854	DC	0.000	199.169	0.000
10	3.5624	DC	0.000	205.197	0.000
10	5.3395	DC	0.000	211.225	0.000
10	7.1165	DC	0.000	217.253	0.000
10	7.1165	DC	0.000	217.253	0.000
10	8.8935	DC	0.000	223.280	0.000
10	10.6706	DC	0.000	229.308	0.000
10	12.4476	DC	0.000	235.336	0.000
10	14.2247	DC	0.000	241.363	0.000

Table 18: Element Forces - Frames, Part 1 of 2

Frame	Station ft	OutputCase	P Kip	V2 Kip	V3 Kip
10	14.2247	DC	0.000	241.363	0.000
10	14.2330	DC	0.000	241.392	0.000

Table 18: Element Forces - Frames, Part 2 of 2

Table 18: Element Forces - Frames, Part 2 of 2

Frame	Station ft	OutputCase	T Kip-ft	M2 Kip-ft	M3 Kip-ft
1	0.0000	DEAD	0.0000	0.0000	9.701E-12
1	0.0083	DEAD	0.0000	0.0000	1.8908
1	0.0083	DEAD	0.0000	0.0000	1.8908
1	1.7854	DEAD	0.0000	0.0000	400.0422
1	3.5624	DEAD	0.0000	0.0000	788.1245
1	5.3395	DEAD	0.0000	0.0000	1166.1378
1	7.1165	DEAD	0.0000	0.0000	1534.0821
1	7.1165	DEAD	0.0000	0.0000	1534.0821
1	8.8935	DEAD	0.0000	0.0000	1891.9574
1	10.6706	DEAD	0.0000	0.0000	2239.7636
1	12.4476	DEAD	0.0000	0.0000	2577.5009
1	14.2247	DEAD	0.0000	0.0000	2905.1691
1	14.2247	DEAD	0.0000	0.0000	2905.1691
1	14.2330	DEAD	0.0000	0.0000	2906.6819
1	0.0000	PL	0.0000	0.0000	-4.851E-12
1	0.0083	PL	0.0000	0.0000	0.8006
1	0.0083	PL	0.0000	0.0000	0.8006
1	1.7854	PL	0.0000	0.0000	169.3743
1	3.5624	PL	0.0000	0.0000	333.6849
1	5.3395	PL	0.0000	0.0000	493.7323
1	7.1165	PL	0.0000	0.0000	649.5166
1	7.1165	PL	0.0000	0.0000	649.5166
1	8.8935	PL	0.0000	0.0000	801.0378
1	10.6706	PL	0.0000	0.0000	948.2959
1	12.4476	PL	0.0000	0.0000	1091.2908
1	14.2247	PL	0.0000	0.0000	1230.0226
1	14.2247	PL	0.0000	0.0000	1230.0226
1	14.2330	PL	0.0000	0.0000	1230.6631
1	0.0000	DW	0.0000	0.0000	-1.213E-12
1	0.0083	DW	0.0000	0.0000	0.1838
1	0.0083	DW	0.0000	0.0000	0.1838
1	1.7854	DW	0.0000	0.0000	38.8934
1	3.5624	DW	0.0000	0.0000	76.6239
1	5.3395	DW	0.0000	0.0000	113.3756
1	7.1165	DW	0.0000	0.0000	149.1483
1	7.1165	DW	0.0000	0.0000	149.1483
1	8.8935	DW	0.0000	0.0000	183.9420
1	10.6706	DW	0.0000	0.0000	217.7568
1	12.4476	DW	0.0000	0.0000	250.5927
1	14.2247	DW	0.0000	0.0000	282.4496
1	14.2247	DW	0.0000	0.0000	282.4496
1	14.2330	DW	0.0000	0.0000	282.5967
1	0.0000	DC	0.0000	0.0000	9.701E-12
1	0.0083	DC	0.0000	0.0000	2.0115
1	0.0083	DC	0.0000	0.0000	2.0115

Table 18: Element Forces - Frames, Part 2 of 2

Frame	Station ft	OutputCase	T Kip-ft	M2 Kip-ft	M3 Kip-ft
1	1.7854	DC	0.0000	0.0000	425.5686
1	3.5624	DC	0.0000	0.0000	838.4141
1	5.3395	DC	0.0000	0.0000	1240.5482
1	7.1165	DC	0.0000	0.0000	1631.9707
1	7.1165	DC	0.0000	0.0000	1631.9707
1	8.8935	DC	0.0000	0.0000	2012.6817
1	10.6706	DC	0.0000	0.0000	2382.6812
1	12.4476	DC	0.0000	0.0000	2741.9692
1	14.2247	DC	0.0000	0.0000	3090.5456
1	14.2247	DC	0.0000	0.0000	3090.5456
1	14.2330	DC	0.0000	0.0000	3092.1550
2	0.0000	DEAD	0.0000	0.0000	2906.6819
2	0.0083	DEAD	0.0000	0.0000	2908.1946
2	0.0083	DEAD	0.0000	0.0000	2908.1946
2	1.7854	DEAD	0.0000	0.0000	3225.6993
2	3.5624	DEAD	0.0000	0.0000	3533.1350
2	5.3395	DEAD	0.0000	0.0000	3830.5017
2	7.1165	DEAD	0.0000	0.0000	4117.7994
2	7.1165	DEAD	0.0000	0.0000	4117.7994
2	8.8935	DEAD	0.0000	0.0000	4395.0280
2	10.6706	DEAD	0.0000	0.0000	4662.1877
2	12.4476	DEAD	0.0000	0.0000	4919.2783
2	14.2247	DEAD	0.0000	0.0000	5166.2998
2	14.2247	DEAD	0.0000	0.0000	5166.2998
2	14.2330	DEAD	0.0000	0.0000	5167.4345
2	0.0000	PL	0.0000	0.0000	1230.6631
2	0.0083	PL	0.0000	0.0000	1231.3035
2	0.0083	PL	0.0000	0.0000	1231.3035
2	1.7854	PL	0.0000	0.0000	1365.7322
2	3.5624	PL	0.0000	0.0000	1495.8977
2	5.3395	PL	0.0000	0.0000	1621.8001
2	7.1165	PL	0.0000	0.0000	1743.4394
2	7.1165	PL	0.0000	0.0000	1743.4394
2	8.8935	PL	0.0000	0.0000	1860.8155
2	10.6706	PL	0.0000	0.0000	1973.9285
2	12.4476	PL	0.0000	0.0000	2082.7784
2	14.2247	PL	0.0000	0.0000	2187.3651
2	14.2247	PL	0.0000	0.0000	2187.3651
2	14.2330	PL	0.0000	0.0000	2187.8455
2	0.0000	DW	0.0000	0.0000	282.5967
2	0.0083	DW	0.0000	0.0000	282.7438
2	0.0083	DW	0.0000	0.0000	282.7438
2	1.7854	DW	0.0000	0.0000	313.6126
2	3.5624	DW	0.0000	0.0000	343.5024
2	5.3395	DW	0.0000	0.0000	372.4134
2	7.1165	DW	0.0000	0.0000	400.3453
2	7.1165	DW	0.0000	0.0000	400.3453
2	8.8935	DW	0.0000	0.0000	427.2984
2	10.6706	DW	0.0000	0.0000	453.2725
2	12.4476	DW	0.0000	0.0000	478.2676
2	14.2247	DW	0.0000	0.0000	502.2838
2	14.2247	DW	0.0000	0.0000	502.2838
2	14.2330	DW	0.0000	0.0000	502.3942
2	0.0000	DC	0.0000	0.0000	3092.1550

Table 18: Element Forces - Frames, Part 2 of 2

Frame	Station ft	OutputCase	T Kip-ft	M2 Kip-ft	M3 Kip-ft
2	0.0083	DC	0.0000	0.0000	3093.7642
2	0.0083	DC	0.0000	0.0000	3093.7642
2	1.7854	DC	0.0000	0.0000	3431.5286
2	3.5624	DC	0.0000	0.0000	3758.5816
2	5.3395	DC	0.0000	0.0000	4074.9230
2	7.1165	DC	0.0000	0.0000	4380.5529
2	7.1165	DC	0.0000	0.0000	4380.5529
2	8.8935	DC	0.0000	0.0000	4675.4713
2	10.6706	DC	0.0000	0.0000	4959.6782
2	12.4476	DC	0.0000	0.0000	5233.1735
2	14.2247	DC	0.0000	0.0000	5495.9574
2	14.2247	DC	0.0000	0.0000	5495.9574
2	14.2330	DC	0.0000	0.0000	5497.1645
3	0.0000	DEAD	0.0000	0.0000	5167.4345
3	0.0083	DEAD	0.0000	0.0000	5168.5690
3	0.0083	DEAD	0.0000	0.0000	5168.5690
3	1.7854	DEAD	0.0000	0.0000	5405.4271
3	3.5624	DEAD	0.0000	0.0000	5632.2162
3	5.3395	DEAD	0.0000	0.0000	5848.9363
3	7.1165	DEAD	0.0000	0.0000	6055.5873
3	7.1165	DEAD	0.0000	0.0000	6055.5873
3	8.8935	DEAD	0.0000	0.0000	6252.1694
3	10.6706	DEAD	0.0000	0.0000	6438.6824
3	12.4476	DEAD	0.0000	0.0000	6615.1264
3	14.2247	DEAD	0.0000	0.0000	6781.5013
3	14.2247	DEAD	0.0000	0.0000	6781.5013
3	14.2330	DEAD	0.0000	0.0000	6782.2578
3	0.0000	PL	0.0000	0.0000	2187.8455
3	0.0083	PL	0.0000	0.0000	2188.3258
3	0.0083	PL	0.0000	0.0000	2188.3258
3	1.7854	PL	0.0000	0.0000	2288.6094
3	3.5624	PL	0.0000	0.0000	2384.6299
3	5.3395	PL	0.0000	0.0000	2476.3873
3	7.1165	PL	0.0000	0.0000	2563.8815
3	7.1165	PL	0.0000	0.0000	2563.8815
3	8.8935	PL	0.0000	0.0000	2647.1125
3	10.6706	PL	0.0000	0.0000	2726.0805
3	12.4476	PL	0.0000	0.0000	2800.7853
3	14.2247	PL	0.0000	0.0000	2871.2270
3	14.2247	PL	0.0000	0.0000	2871.2270
3	14.2330	PL	0.0000	0.0000	2871.5472
3	0.0000	DW	0.0000	0.0000	502.3942
3	0.0083	DW	0.0000	0.0000	502.5045
3	0.0083	DW	0.0000	0.0000	502.5045
3	1.7854	DW	0.0000	0.0000	525.5325
3	3.5624	DW	0.0000	0.0000	547.5817
3	5.3395	DW	0.0000	0.0000	568.6519
3	7.1165	DW	0.0000	0.0000	588.7432
3	7.1165	DW	0.0000	0.0000	588.7432
3	8.8935	DW	0.0000	0.0000	607.8555
3	10.6706	DW	0.0000	0.0000	625.9889
3	12.4476	DW	0.0000	0.0000	643.1433
3	14.2247	DW	0.0000	0.0000	659.3188
3	14.2247	DW	0.0000	0.0000	659.3188

Table 18: Element Forces - Frames, Part 2 of 2

Frame	Station ft	OutputCase	T Kip-ft	M2 Kip-ft	M3 Kip-ft
3	14.2330	DW	0.0000	0.0000	659.3923
3	0.0000	DC	0.0000	0.0000	5497.1645
3	0.0083	DC	0.0000	0.0000	5498.3713
3	0.0083	DC	0.0000	0.0000	5498.3713
3	1.7854	DC	0.0000	0.0000	5750.3431
3	3.5624	DC	0.0000	0.0000	5991.6035
3	5.3395	DC	0.0000	0.0000	6222.1523
3	7.1165	DC	0.0000	0.0000	6441.9896
3	7.1165	DC	0.0000	0.0000	6441.9896
3	8.8935	DC	0.0000	0.0000	6651.1154
3	10.6706	DC	0.0000	0.0000	6849.5296
3	12.4476	DC	0.0000	0.0000	7037.2324
3	14.2247	DC	0.0000	0.0000	7214.2236
3	14.2247	DC	0.0000	0.0000	7214.2236
3	14.2330	DC	0.0000	0.0000	7215.0283
4	0.0000	DEAD	0.0000	0.0000	6782.2578
4	0.0083	DEAD	0.0000	0.0000	6783.0141
4	0.0083	DEAD	0.0000	0.0000	6783.0141
4	1.7854	DEAD	0.0000	0.0000	6939.2256
4	3.5624	DEAD	0.0000	0.0000	7085.3681
4	5.3395	DEAD	0.0000	0.0000	7221.4415
4	7.1165	DEAD	0.0000	0.0000	7347.4460
4	7.1165	DEAD	0.0000	0.0000	7347.4460
4	8.8935	DEAD	0.0000	0.0000	7463.3814
4	10.6706	DEAD	0.0000	0.0000	7569.2478
4	12.4476	DEAD	0.0000	0.0000	7665.0451
4	14.2247	DEAD	0.0000	0.0000	7750.7735
4	14.2247	DEAD	0.0000	0.0000	7750.7735
4	14.2330	DEAD	0.0000	0.0000	7751.1518
4	0.0000	PL	0.0000	0.0000	2871.5472
4	0.0083	PL	0.0000	0.0000	2871.8674
4	0.0083	PL	0.0000	0.0000	2871.8674
4	1.7854	PL	0.0000	0.0000	2938.0060
4	3.5624	PL	0.0000	0.0000	2999.8814
4	5.3395	PL	0.0000	0.0000	3057.4937
4	7.1165	PL	0.0000	0.0000	3110.8429
4	7.1165	PL	0.0000	0.0000	3110.8429
4	8.8935	PL	0.0000	0.0000	3159.9289
4	10.6706	PL	0.0000	0.0000	3204.7518
4	12.4476	PL	0.0000	0.0000	3245.3115
4	14.2247	PL	0.0000	0.0000	3281.6081
4	14.2247	PL	0.0000	0.0000	3281.6081
4	14.2330	PL	0.0000	0.0000	3281.7683
4	0.0000	DW	0.0000	0.0000	659.3923
4	0.0083	DW	0.0000	0.0000	659.4659
4	0.0083	DW	0.0000	0.0000	659.4659
4	1.7854	DW	0.0000	0.0000	674.6532
4	3.5624	DW	0.0000	0.0000	688.8617
4	5.3395	DW	0.0000	0.0000	702.0911
4	7.1165	DW	0.0000	0.0000	714.3417
4	7.1165	DW	0.0000	0.0000	714.3417
4	8.8935	DW	0.0000	0.0000	725.6133
4	10.6706	DW	0.0000	0.0000	735.9060
4	12.4476	DW	0.0000	0.0000	745.2197

Table 18: Element Forces - Frames, Part 2 of 2

Frame	Station ft	OutputCase	T Kip-ft	M2 Kip-ft	M3 Kip-ft
4	14.2247	DW	0.0000	0.0000	753.5545
4	14.2247	DW	0.0000	0.0000	753.5545
4	14.2330	DW	0.0000	0.0000	753.5912
4	0.0000	DC	0.0000	0.0000	7215.0283
4	0.0083	DC	0.0000	0.0000	7215.8329
4	0.0083	DC	0.0000	0.0000	7215.8329
4	1.7854	DC	0.0000	0.0000	7382.0121
4	3.5624	DC	0.0000	0.0000	7537.4798
4	5.3395	DC	0.0000	0.0000	7682.2360
4	7.1165	DC	0.0000	0.0000	7816.2807
4	7.1165	DC	0.0000	0.0000	7816.2807
4	8.8935	DC	0.0000	0.0000	7939.6139
4	10.6706	DC	0.0000	0.0000	8052.2355
4	12.4476	DC	0.0000	0.0000	8154.1456
4	14.2247	DC	0.0000	0.0000	8245.3442
4	14.2247	DC	0.0000	0.0000	8245.3442
4	14.2330	DC	0.0000	0.0000	8245.7467
5	0.0000	DEAD	0.0000	0.0000	7751.1518
5	0.0083	DEAD	0.0000	0.0000	7751.5299
5	0.0083	DEAD	0.0000	0.0000	7751.5299
5	1.7854	DEAD	0.0000	0.0000	7827.0947
5	3.5624	DEAD	0.0000	0.0000	7892.5906
5	5.3395	DEAD	0.0000	0.0000	7948.0175
5	7.1165	DEAD	0.0000	0.0000	7993.3753
5	7.1165	DEAD	0.0000	0.0000	7993.3753
5	8.8935	DEAD	0.0000	0.0000	8028.6641
5	10.6706	DEAD	0.0000	0.0000	8053.8838
5	12.4476	DEAD	0.0000	0.0000	8069.0346
5	14.2247	DEAD	0.0000	0.0000	8074.1163
5	14.2247	DEAD	0.0000	0.0000	8074.1163
5	14.2330	DEAD	0.0000	0.0000	8074.1164
5	0.0000	PL	0.0000	0.0000	3281.7683
5	0.0083	PL	0.0000	0.0000	3281.9284
5	0.0083	PL	0.0000	0.0000	3281.9284
5	1.7854	PL	0.0000	0.0000	3313.9219
5	3.5624	PL	0.0000	0.0000	3341.6522
5	5.3395	PL	0.0000	0.0000	3365.1194
5	7.1165	PL	0.0000	0.0000	3384.3235
5	7.1165	PL	0.0000	0.0000	3384.3235
5	8.8935	PL	0.0000	0.0000	3399.2645
5	10.6706	PL	0.0000	0.0000	3409.9423
5	12.4476	PL	0.0000	0.0000	3416.3570
5	14.2247	PL	0.0000	0.0000	3418.5086
5	14.2247	PL	0.0000	0.0000	3418.5086
5	14.2330	PL	0.0000	0.0000	3418.5086
5	0.0000	DW	0.0000	0.0000	753.5912
5	0.0083	DW	0.0000	0.0000	753.6280
5	0.0083	DW	0.0000	0.0000	753.6280
5	1.7854	DW	0.0000	0.0000	760.9746
5	3.5624	DW	0.0000	0.0000	767.3424
5	5.3395	DW	0.0000	0.0000	772.7311
5	7.1165	DW	0.0000	0.0000	777.1410
5	7.1165	DW	0.0000	0.0000	777.1410
5	8.8935	DW	0.0000	0.0000	780.5718

Table 18: Element Forces - Frames, Part 2 of 2

Frame	Station ft	OutputCase	T Kip-ft	M2 Kip-ft	M3 Kip-ft
5	10.6706	DW	0.0000	0.0000	783.0238
5	12.4476	DW	0.0000	0.0000	784.4968
5	14.2247	DW	0.0000	0.0000	784.9909
5	14.2247	DW	0.0000	0.0000	784.9909
5	14.2330	DW	0.0000	0.0000	784.9909
5	0.0000	DC	0.0000	0.0000	8245.7467
5	0.0083	DC	0.0000	0.0000	8246.1489
5	0.0083	DC	0.0000	0.0000	8246.1489
5	1.7854	DC	0.0000	0.0000	8326.5355
5	3.5624	DC	0.0000	0.0000	8396.2106
5	5.3395	DC	0.0000	0.0000	8455.1742
5	7.1165	DC	0.0000	0.0000	8503.4263
5	7.1165	DC	0.0000	0.0000	8503.4263
5	8.8935	DC	0.0000	0.0000	8540.9668
5	10.6706	DC	0.0000	0.0000	8567.7958
5	12.4476	DC	0.0000	0.0000	8583.9133
5	14.2247	DC	0.0000	0.0000	8589.3193
5	14.2247	DC	0.0000	0.0000	8589.3193
5	14.2330	DC	0.0000	0.0000	8589.3195
6	0.0000	DEAD	0.0000	0.0000	8074.1164
6	0.0083	DEAD	0.0000	0.0000	8074.1163
6	0.0083	DEAD	0.0000	0.0000	8074.1163
6	1.7854	DEAD	0.0000	0.0000	8069.0346
6	3.5624	DEAD	0.0000	0.0000	8053.8838
6	5.3395	DEAD	0.0000	0.0000	8028.6641
6	7.1165	DEAD	0.0000	0.0000	7993.3753
6	7.1165	DEAD	0.0000	0.0000	7993.3753
6	8.8935	DEAD	0.0000	0.0000	7948.0175
6	10.6706	DEAD	0.0000	0.0000	7892.5906
6	12.4476	DEAD	0.0000	0.0000	7827.0947
6	14.2247	DEAD	0.0000	0.0000	7751.5299
6	14.2247	DEAD	0.0000	0.0000	7751.5299
6	14.2330	DEAD	0.0000	0.0000	7751.518
6	0.0000	PL	0.0000	0.0000	3418.5086
6	0.0083	PL	0.0000	0.0000	3418.5086
6	0.0083	PL	0.0000	0.0000	3418.5086
6	1.7854	PL	0.0000	0.0000	3416.3570
6	3.5624	PL	0.0000	0.0000	3409.9423
6	5.3395	PL	0.0000	0.0000	3399.2645
6	7.1165	PL	0.0000	0.0000	3384.3235
6	7.1165	PL	0.0000	0.0000	3384.3235
6	8.8935	PL	0.0000	0.0000	3365.1194
6	10.6706	PL	0.0000	0.0000	3341.6522
6	12.4476	PL	0.0000	0.0000	3313.9219
6	14.2247	PL	0.0000	0.0000	3281.9284
6	14.2247	PL	0.0000	0.0000	3281.9284
6	14.2330	PL	0.0000	0.0000	3281.7683
6	0.0000	DW	0.0000	0.0000	784.9909
6	0.0083	DW	0.0000	0.0000	784.9909
6	0.0083	DW	0.0000	0.0000	784.9909
6	1.7854	DW	0.0000	0.0000	784.4968
6	3.5624	DW	0.0000	0.0000	783.0238
6	5.3395	DW	0.0000	0.0000	780.5718
6	7.1165	DW	0.0000	0.0000	777.1410

Table 18: Element Forces - Frames, Part 2 of 2

Frame	Station ft	OutputCase	T Kip-ft	M2 Kip-ft	M3 Kip-ft
6	7.1165	DW	0.0000	0.0000	777.1410
6	8.8935	DW	0.0000	0.0000	772.7311
6	10.6706	DW	0.0000	0.0000	767.3424
6	12.4476	DW	0.0000	0.0000	760.9746
6	14.2247	DW	0.0000	0.0000	753.6280
6	14.2247	DW	0.0000	0.0000	753.6280
6	14.2330	DW	0.0000	0.0000	753.5912
6	0.0000	DC	0.0000	0.0000	8589.3195
6	0.0083	DC	0.0000	0.0000	8589.3193
6	0.0083	DC	0.0000	0.0000	8589.3193
6	1.7854	DC	0.0000	0.0000	8583.9133
6	3.5624	DC	0.0000	0.0000	8567.7958
6	5.3395	DC	0.0000	0.0000	8540.9668
6	7.1165	DC	0.0000	0.0000	8503.4263
6	7.1165	DC	0.0000	0.0000	8503.4263
6	8.8935	DC	0.0000	0.0000	8455.1742
6	10.6706	DC	0.0000	0.0000	8396.2106
6	12.4476	DC	0.0000	0.0000	8326.5355
6	14.2247	DC	0.0000	0.0000	8246.1489
6	14.2247	DC	0.0000	0.0000	8246.1489
6	14.2330	DC	0.0000	0.0000	8245.7467
7	0.0000	DEAD	0.0000	0.0000	7751.1518
7	0.0083	DEAD	0.0000	0.0000	7750.7735
7	0.0083	DEAD	0.0000	0.0000	7750.7735
7	1.7854	DEAD	0.0000	0.0000	7665.0451
7	3.5624	DEAD	0.0000	0.0000	7569.2478
7	5.3395	DEAD	0.0000	0.0000	7463.3814
7	7.1165	DEAD	0.0000	0.0000	7347.4460
7	7.1165	DEAD	0.0000	0.0000	7347.4460
7	8.8935	DEAD	0.0000	0.0000	7221.4415
7	10.6706	DEAD	0.0000	0.0000	7085.3681
7	12.4476	DEAD	0.0000	0.0000	6939.2256
7	14.2247	DEAD	0.0000	0.0000	6783.0141
7	14.2247	DEAD	0.0000	0.0000	6783.0141
7	14.2330	DEAD	0.0000	0.0000	6782.2578
7	0.0000	PL	0.0000	0.0000	3281.7683
7	0.0083	PL	0.0000	0.0000	3281.6081
7	0.0083	PL	0.0000	0.0000	3281.6081
7	1.7854	PL	0.0000	0.0000	3245.3115
7	3.5624	PL	0.0000	0.0000	3204.7518
7	5.3395	PL	0.0000	0.0000	3159.9289
7	7.1165	PL	0.0000	0.0000	3110.8429
7	7.1165	PL	0.0000	0.0000	3110.8429
7	8.8935	PL	0.0000	0.0000	3057.4937
7	10.6706	PL	0.0000	0.0000	2999.8814
7	12.4476	PL	0.0000	0.0000	2938.0060
7	14.2247	PL	0.0000	0.0000	2871.8674
7	14.2247	PL	0.0000	0.0000	2871.8674
7	14.2330	PL	0.0000	0.0000	2871.5472
7	0.0000	DW	0.0000	0.0000	753.5912
7	0.0083	DW	0.0000	0.0000	753.5545
7	0.0083	DW	0.0000	0.0000	753.5545
7	1.7854	DW	0.0000	0.0000	745.2197
7	3.5624	DW	0.0000	0.0000	735.9060

Table 18: Element Forces - Frames, Part 2 of 2

Frame	Station ft	OutputCase	T Kip-ft	M2 Kip-ft	M3 Kip-ft
7	5.3395	DW	0.0000	0.0000	725.6133
7	7.1165	DW	0.0000	0.0000	714.3417
7	7.1165	DW	0.0000	0.0000	714.3417
7	8.8935	DW	0.0000	0.0000	702.0911
7	10.6706	DW	0.0000	0.0000	688.8617
7	12.4476	DW	0.0000	0.0000	674.6532
7	14.2247	DW	0.0000	0.0000	659.4659
7	14.2247	DW	0.0000	0.0000	659.4659
7	14.2330	DW	0.0000	0.0000	659.3923
7	0.0000	DC	0.0000	0.0000	8245.7467
7	0.0083	DC	0.0000	0.0000	8245.3442
7	0.0083	DC	0.0000	0.0000	8245.3442
7	1.7854	DC	0.0000	0.0000	8154.1456
7	3.5624	DC	0.0000	0.0000	8052.2355
7	5.3395	DC	0.0000	0.0000	7939.6139
7	7.1165	DC	0.0000	0.0000	7816.2807
7	7.1165	DC	0.0000	0.0000	7816.2807
7	8.8935	DC	0.0000	0.0000	7682.2360
7	10.6706	DC	0.0000	0.0000	7537.4798
7	12.4476	DC	0.0000	0.0000	7382.0121
7	14.2247	DC	0.0000	0.0000	7215.8329
7	14.2247	DC	0.0000	0.0000	7215.8329
7	14.2330	DC	0.0000	0.0000	7215.0283
8	0.0000	DEAD	0.0000	0.0000	6782.2578
8	0.0083	DEAD	0.0000	0.0000	6781.5013
8	0.0083	DEAD	0.0000	0.0000	6781.5013
8	1.7854	DEAD	0.0000	0.0000	6615.1264
8	3.5624	DEAD	0.0000	0.0000	6438.6824
8	5.3395	DEAD	0.0000	0.0000	6252.1694
8	7.1165	DEAD	0.0000	0.0000	6055.5873
8	7.1165	DEAD	0.0000	0.0000	6055.5873
8	8.8935	DEAD	0.0000	0.0000	5848.9363
8	10.6706	DEAD	0.0000	0.0000	5632.2162
8	12.4476	DEAD	0.0000	0.0000	5405.4271
8	14.2247	DEAD	0.0000	0.0000	5168.5690
8	14.2247	DEAD	0.0000	0.0000	5168.5690
8	14.2330	DEAD	0.0000	0.0000	5167.4345
8	0.0000	PL	0.0000	0.0000	2871.5472
8	0.0083	PL	0.0000	0.0000	2871.2270
8	0.0083	PL	0.0000	0.0000	2871.2270
8	1.7854	PL	0.0000	0.0000	2800.7853
8	3.5624	PL	0.0000	0.0000	2726.0805
8	5.3395	PL	0.0000	0.0000	2647.1125
8	7.1165	PL	0.0000	0.0000	2563.8815
8	7.1165	PL	0.0000	0.0000	2563.8815
8	8.8935	PL	0.0000	0.0000	2476.3873
8	10.6706	PL	0.0000	0.0000	2384.6299
8	12.4476	PL	0.0000	0.0000	2288.6094
8	14.2247	PL	0.0000	0.0000	2188.3258
8	14.2247	PL	0.0000	0.0000	2188.3258
8	14.2330	PL	0.0000	0.0000	2187.8455
8	0.0000	DW	0.0000	0.0000	659.3923
8	0.0083	DW	0.0000	0.0000	659.3188
8	0.0083	DW	0.0000	0.0000	659.3188

Table 18: Element Forces - Frames, Part 2 of 2

Frame	Station ft	OutputCase	T Kip-ft	M2 Kip-ft	M3 Kip-ft
8	1.7854	DW	0.0000	0.0000	643.1433
8	3.5624	DW	0.0000	0.0000	625.9889
8	5.3395	DW	0.0000	0.0000	607.8555
8	7.1165	DW	0.0000	0.0000	588.7432
8	7.1165	DW	0.0000	0.0000	588.7432
8	8.8935	DW	0.0000	0.0000	568.6519
8	10.6706	DW	0.0000	0.0000	547.5817
8	12.4476	DW	0.0000	0.0000	525.5325
8	14.2247	DW	0.0000	0.0000	502.5045
8	14.2247	DW	0.0000	0.0000	502.5045
8	14.2330	DW	0.0000	0.0000	502.3942
8	0.0000	DC	0.0000	0.0000	7215.0283
8	0.0083	DC	0.0000	0.0000	7214.2236
8	0.0083	DC	0.0000	0.0000	7214.2236
8	1.7854	DC	0.0000	0.0000	7037.2324
8	3.5624	DC	0.0000	0.0000	6849.5296
8	5.3395	DC	0.0000	0.0000	6651.1154
8	7.1165	DC	0.0000	0.0000	6441.9896
8	7.1165	DC	0.0000	0.0000	6441.9896
8	8.8935	DC	0.0000	0.0000	6222.1523
8	10.6706	DC	0.0000	0.0000	5991.6035
8	12.4476	DC	0.0000	0.0000	5750.3431
8	14.2247	DC	0.0000	0.0000	5498.3713
8	14.2247	DC	0.0000	0.0000	5498.3713
8	14.2330	DC	0.0000	0.0000	5497.1645
9	0.0000	DEAD	0.0000	0.0000	5167.4345
9	0.0083	DEAD	0.0000	0.0000	5166.2998
9	0.0083	DEAD	0.0000	0.0000	5166.2998
9	1.7854	DEAD	0.0000	0.0000	4919.2783
9	3.5624	DEAD	0.0000	0.0000	4662.1877
9	5.3395	DEAD	0.0000	0.0000	4395.0280
9	7.1165	DEAD	0.0000	0.0000	4117.7994
9	7.1165	DEAD	0.0000	0.0000	4117.7994
9	8.8935	DEAD	0.0000	0.0000	3830.5017
9	10.6706	DEAD	0.0000	0.0000	3533.1350
9	12.4476	DEAD	0.0000	0.0000	3225.6993
9	14.2247	DEAD	0.0000	0.0000	2908.1946
9	14.2247	DEAD	0.0000	0.0000	2908.1946
9	14.2330	DEAD	0.0000	0.0000	2906.6819
9	0.0000	PL	0.0000	0.0000	2187.8455
9	0.0083	PL	0.0000	0.0000	2187.3651
9	0.0083	PL	0.0000	0.0000	2187.3651
9	1.7854	PL	0.0000	0.0000	2082.7784
9	3.5624	PL	0.0000	0.0000	1973.9285
9	5.3395	PL	0.0000	0.0000	1860.8155
9	7.1165	PL	0.0000	0.0000	1743.4394
9	7.1165	PL	0.0000	0.0000	1743.4394
9	8.8935	PL	0.0000	0.0000	1621.8001
9	10.6706	PL	0.0000	0.0000	1495.8977
9	12.4476	PL	0.0000	0.0000	1365.7322
9	14.2247	PL	0.0000	0.0000	1231.3035
9	14.2247	PL	0.0000	0.0000	1231.3035
9	14.2330	PL	0.0000	0.0000	1230.6631
9	0.0000	DW	0.0000	0.0000	502.3942

Table 18: Element Forces - Frames, Part 2 of 2

Frame	Station ft	OutputCase	T Kip-ft	M2 Kip-ft	M3 Kip-ft
9	0.0083	DW	0.0000	0.0000	502.2838
9	0.0083	DW	0.0000	0.0000	502.2838
9	1.7854	DW	0.0000	0.0000	478.2676
9	3.5624	DW	0.0000	0.0000	453.2725
9	5.3395	DW	0.0000	0.0000	427.2984
9	7.1165	DW	0.0000	0.0000	400.3453
9	7.1165	DW	0.0000	0.0000	400.3453
9	8.8935	DW	0.0000	0.0000	372.4134
9	10.6706	DW	0.0000	0.0000	343.5024
9	12.4476	DW	0.0000	0.0000	313.6126
9	14.2247	DW	0.0000	0.0000	282.7438
9	14.2247	DW	0.0000	0.0000	282.7438
9	14.2330	DW	0.0000	0.0000	282.5967
9	0.0000	DC	0.0000	0.0000	5497.1645
9	0.0083	DC	0.0000	0.0000	5495.9574
9	0.0083	DC	0.0000	0.0000	5495.9574
9	1.7854	DC	0.0000	0.0000	5233.1735
9	3.5624	DC	0.0000	0.0000	4959.6782
9	5.3395	DC	0.0000	0.0000	4675.4713
9	7.1165	DC	0.0000	0.0000	4380.5529
9	7.1165	DC	0.0000	0.0000	4380.5529
9	8.8935	DC	0.0000	0.0000	4074.9230
9	10.6706	DC	0.0000	0.0000	3758.5816
9	12.4476	DC	0.0000	0.0000	3431.5286
9	14.2247	DC	0.0000	0.0000	3093.7642
9	14.2247	DC	0.0000	0.0000	3093.7642
9	14.2330	DC	0.0000	0.0000	3092.1550
10	0.0000	DEAD	0.0000	0.0000	2906.6819
10	0.0083	DEAD	0.0000	0.0000	2905.1691
10	0.0083	DEAD	0.0000	0.0000	2905.1691
10	1.7854	DEAD	0.0000	0.0000	2577.5009
10	3.5624	DEAD	0.0000	0.0000	2239.7636
10	5.3395	DEAD	0.0000	0.0000	1891.9574
10	7.1165	DEAD	0.0000	0.0000	1534.0821
10	7.1165	DEAD	0.0000	0.0000	1534.0821
10	8.8935	DEAD	0.0000	0.0000	1166.1378
10	10.6706	DEAD	0.0000	0.0000	788.1245
10	12.4476	DEAD	0.0000	0.0000	400.0422
10	14.2247	DEAD	0.0000	0.0000	1.8908
10	14.2247	DEAD	0.0000	0.0000	1.8908
10	14.2330	DEAD	0.0000	0.0000	1.410E-11
10	0.0000	PL	0.0000	0.0000	1230.6631
10	0.0083	PL	0.0000	0.0000	1230.0226
10	0.0083	PL	0.0000	0.0000	1230.0226
10	1.7854	PL	0.0000	0.0000	1091.2908
10	3.5624	PL	0.0000	0.0000	948.2959
10	5.3395	PL	0.0000	0.0000	801.0378
10	7.1165	PL	0.0000	0.0000	649.5166
10	7.1165	PL	0.0000	0.0000	649.5166
10	8.8935	PL	0.0000	0.0000	493.7323
10	10.6706	PL	0.0000	0.0000	333.6849
10	12.4476	PL	0.0000	0.0000	169.3743
10	14.2247	PL	0.0000	0.0000	0.8006
10	14.2247	PL	0.0000	0.0000	0.8006

Table 18: Element Forces - Frames, Part 2 of 2

Frame	Station ft	OutputCase	T Kip-ft	M2 Kip-ft	M3 Kip-ft
10	14.2330	PL	0.0000	0.0000	4.076E-12
10	0.0000	DW	0.0000	0.0000	282.5967
10	0.0083	DW	0.0000	0.0000	282.4496
10	0.0083	DW	0.0000	0.0000	282.4496
10	1.7854	DW	0.0000	0.0000	250.5927
10	3.5624	DW	0.0000	0.0000	217.7568
10	5.3395	DW	0.0000	0.0000	183.9420
10	7.1165	DW	0.0000	0.0000	149.1483
10	7.1165	DW	0.0000	0.0000	149.1483
10	8.8935	DW	0.0000	0.0000	113.3756
10	10.6706	DW	0.0000	0.0000	76.6239
10	12.4476	DW	0.0000	0.0000	38.8934
10	14.2247	DW	0.0000	0.0000	0.1838
10	14.2247	DW	0.0000	0.0000	0.1838
10	14.2330	DW	0.0000	0.0000	-1.746E-14
10	0.0000	DC	0.0000	0.0000	3092.1550
10	0.0083	DC	0.0000	0.0000	3090.5456
10	0.0083	DC	0.0000	0.0000	3090.5456
10	1.7854	DC	0.0000	0.0000	2741.9692
10	3.5624	DC	0.0000	0.0000	2382.6812
10	5.3395	DC	0.0000	0.0000	2012.6817
10	7.1165	DC	0.0000	0.0000	1631.9707
10	7.1165	DC	0.0000	0.0000	1631.9707
10	8.8935	DC	0.0000	0.0000	1240.5482
10	10.6706	DC	0.0000	0.0000	838.4141
10	12.4476	DC	0.0000	0.0000	425.5686
10	14.2247	DC	0.0000	0.0000	2.0115
10	14.2247	DC	0.0000	0.0000	2.0115
10	14.2330	DC	0.0000	0.0000	-6.236E-12

10. Material take-off

This section provides a material take-off.

Table 19: Material List 2 - By Section Property

Section	ObjectType	NumPieces	TotalLength ft	TotalWeight Kip
FSEC2	Frame	10	142.3300	453.825

11. Design preferences

This section provides the design preferences for each type of design, which typically include material reduction factors, framing type, stress ratio limit, deflection limits, and other code specific items.

11.1. Aluminum design


Table 20: Preferences - Aluminum Design - AA-ASD 2000

FrameType	SRatioLimit	LatFact	UseLatFact
Moment Frame	1.000000	1.333333	No

11.2. Cold formed design

Table 21: Preferences - Cold Formed Design - AISI-ASD96

FrameType	SRatioLimit	OmegaBS	OmegaBUS	OmegaBLTB	OmegaVS	OmegaVNS	OmegaT	OmegaC
Braced Frame	1.000000	1.670000	1.670000	1.670000	1.670000	1.500000	1.670000	1.800000

		Sheet #	1
		Job #	59219
Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date Oct/29/2013
		www.bentley.com Phone: 1-800-778-4277	Checked
File Name:	Pier 12_Ped_A1.rcp		Date


PROJECT DATA

PROJECT DATA

Project:	I-4 PD&E - St. Johns River Bridge Evaluation
User Job No.:	59219
Designer:	CAM
Date:	Oct/29/2013
Checker:	
Checked date:	
State:	FL
State Job No.:	
Structure type:	Pier
Pier View:	Upstation.
Code:	AASHTO LRFD (6th Edition, 2012)
Comments:	Reversible Lanes Alternative Straddle Pier Option

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	2
		Job #	59219
Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date Oct/29/2013
		www.bentley.com Phone: 1-800-778-4277	Checked
File Name:	Pier 12_Ped_A1.rcp		Date

PIER GEOMETRY

Pier Info:

Pier View:	Upstation.
Pier Type:	Multi Column

Cap Shape

Cap Shape:	Variable
Top Elevations:	start = 47.16 ft end = 47.16 ft
Depth(Z):	54.00 in Skew angle = 14.15 Reduction of I = 1.000

Variable Cap Properties

Distance(X) ft	Height(Y) in
0.00	72.00
1.25	72.00
55.50	72.00
1.25	72.00
22.08	72.00
0.50	72.00
96.90	72.00
0.50	72.00
22.08	72.00
1.25	72.00
55.50	72.00
1.25	72.00

Column Shape : Rectangular Chamfered

Number of columns:	6
--------------------	---

Column number 1


Location from the left edge of the cap(X):	11.92 ft
Elevations: bottom = 4.25 ft top = 44.16 ft Reduction of I = 1.000	
Column Bottom is Fixed	

Column Section Dimensions

Dist from last(Y) ft	Width(X) in	Depth(Z) in	ChamferX in	ChamferZ in	Variation
0.00	72.00	49.50	12.75	12.75	-----
39.91	72.00	49.50	12.75	12.75	Linear

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	3
		Job #	59219
Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date Oct/29/2013
		www.bentley.com	Phone: 1-800-778-4277
File Name:	Pier 12_Ped_A1.rcp	Checked	Date

Column number 2

Location from the left edge of the cap(X): 46.08 ft
 Elevations: bottom = 4.25 ft top = 44.16 ft Reduction of I = 1.000
 Column Bottom is Fixed

Column Section Dimensions

Dist from last(Y)	Width(X)	Depth(Z)	ChamferX	ChamferZ	Variation
ft	in	in	in	in	
0.00	72.00	49.50	12.75	12.75	-----
39.91	72.00	49.50	12.75	12.75	Linear

Column number 3

Location from the left edge of the cap(X): 83.17 ft
 Elevations: bottom = 4.25 ft top = 44.16 ft Reduction of I = 1.000
 Column Bottom is Fixed

Column Section Dimensions

Dist from last(Y)	Width(X)	Depth(Z)	ChamferX	ChamferZ	Variation
ft	in	in	in	in	
0.00	72.00	49.50	12.75	12.75	-----
39.91	72.00	49.50	12.75	12.75	Linear

Column number 4

Location from the left edge of the cap(X): 174.90 ft
 Elevations: bottom = 4.25 ft top = 44.16 ft Reduction of I = 1.000
 Column Bottom is Fixed

Column Section Dimensions

Dist from last(Y)	Width(X)	Depth(Z)	ChamferX	ChamferZ	Variation
ft	in	in	in	in	
0.00	72.00	49.50	12.75	12.75	-----
39.91	72.00	49.50	12.75	12.75	Linear

Column number 5


Location from the left edge of the cap(X): 211.98 ft
 Elevations: bottom = 4.25 ft top = 44.16 ft Reduction of I = 1.000
 Column Bottom is Fixed

Column Section Dimensions

Dist from last(Y)	Width(X)	Depth(Z)	ChamferX	ChamferZ	Variation
ft	in	in	in	in	
0.00	72.00	49.50	12.75	12.75	-----
39.91	72.00	49.50	12.75	12.75	Linear

Column number 6

Location from the left edge of the cap(X): 246.15 ft
 Elevations: bottom = 4.25 ft top = 44.16 ft Reduction of I = 1.000
 Column Bottom is Fixed

		Sheet #	4
		Job #	59219
Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date Oct/29/2013
		www.bentley.com	Phone: 1-800-778-4277
File Name:	Pier 12_Ped_A1.rcp	Checked	Date

Column Section Dimensions


Dist from last(Y)	Width(X)	Depth(Z)	ChamferX	ChamferZ	Variation
ft	in	in	in	in	
0.00	72.00	49.50	12.75	12.75	-----
39.91	72.00	49.50	12.75	12.75	Linear

Struts

Strut Shape : Rectangular
 Number of struts: 1

Struts properties

Strut number 1
 Elevations: start = 10.25 ft end = 10.25 ft
 Depth(Z) = 24.00 in Height(Y) = 72.00 in Reduction of I = 1.000

		Sheet #	5
		Job #	59219
Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date Oct/29/2013
		www.bentley.com Phone: 1-800-778-4277	Checked
File Name:	Pier 12_Ped_A1.rcp		Date

SUPERSTRUCTURE INFO


Superstructure info:

Total number of spans:	2
Span number rear to current pier:	1
Number of traffic lanes:	9
Barrier height :	32.00 in
Depth of slab :	8.50 in
Curb to curb distance: 0.000	252.717 ft

Beam info:

Height in	Section area in ²	Inertia (Ixx) in ⁴	Inertia (Iyy) in ⁴	Beam CG in
78.00	1105.00	903861.00	82270.00	34.63

Span #	Span length ft	Bridge Width ft
1	121.167	255.080
2	142.333	255.080
		255.080

		Sheet #	6
		Job #	59219
Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date Oct/29/2013
		www.bentley.com Phone: 1-800-778-4277	Checked
File Name:	Pier 12_Ped_A1.rcp		Date

BEARING POINTS

Number of bearing lines: 2

First bearing line Eccentricity = 1.21 ft

Point	Distance ft
1	2.09
2	15.40
3	28.70
4	42.00
5	55.30
6	65.93
7	76.56
8	87.19
9	97.82
10	123.82
11	132.32
12	158.32
13	169.15
14	179.98
15	190.81
16	202.16
17	211.70
18	221.24
19	230.78
20	240.32
21	247.84
22	255.36

Second bearing line Eccentricity = -1.21 ft

Point	Distance ft
1	2.70
2	13.34
3	23.98
4	34.63
5	45.27
6	55.91
7	66.74
8	77.57
9	88.40
10	99.23
11	125.23
12	133.48
13	159.48
14	170.31
15	181.14
16	191.97
17	202.77



Sheet #	7
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Oct/29/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier 12_Ped_A1.rcp			Date

Point	Distance ft
18	213.41
19	224.05
20	234.69
21	245.33
22	255.97




Sheet #	8
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Oct/29/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier 12_Ped_A1.rcp			Date

MATERIAL PROPERTIES

MATERIAL PROPERTIES

	Cap	Column	Footing
Concrete Type	normal	normal	normal
Concrete Strength (psi)	5500.00	5500.00	5500.00
Concrete Density (lb/ft3)	150.00	150.00	150.00
Concrete Modulus Ec (ksi)	4496.06	4496.06	4496.06
Steel Strength Fy (ksi)	60.00	60.00	60.00

		Sheet #	9
		Job #	59219
Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date Oct/29/2013
		www.bentley.com Phone: 1-800-778-4277	Checked
File Name:	Pier 12_Ped_A1.rcp		Date

DESIGN PARAMETERS

Resistance factors for reinf. concrete

Flexure and tension	0.90
Shear and torsion (normal)	0.90
Shear and torsion (lightweight)	0.70
Axial compression (ties)	0.75
Axial compression (spiral)	0.75
Compression in STM	0.70

Multi presence factors for live load

1 Lane	1.20
2 Lanes	1.00
3 Lanes	0.85
more than 3 Lanes	0.65

Dynamic load allowance IM

	Truck	Lane	Fatigue
Cap	0.33	0.00	0.15
Column	0.33	0.00	0.15
Footing	0.00	0.00	0.00

	Exposure factors	Clear cover in	Clear side cover in
Cap	1.00	2.00	2.00
Column	1.00	2.00	2.00
Footing	1.00	3.00	3.00

Degree of fixity in foundations for Moment Magnify Method: Ga = 5.00

SEISMIC DESIGN PARAMETERS

Strength Reduction factors for reinf. Concrete Seismic Design

Seismic Overstrength


Flexure and tension	1.30
Axial compression (ties)	1.30
Axial compression (spiral)	1.30

Response Modification Factor 5.00

Use core area for plastic hinging calculations.

Design Factors

--	--

		Sheet #	10
		Job #	59219
Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date Oct/29/2013
		www.bentley.com Phone: 1-800-778-4277	Checked
File Name:	Pier 12_Ped_A1.rcp		Date

Cap Design Factor	1.20
Footing Design Factor	1.20

Plastic Hinge Moment

Use actual computed Plastic Hinging Moment for each column in all combinations.



Sheet # 11
Job # 59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Oct/29/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier 12_Ped_A1.rcp			Date

LOADS

Pier Info:
Pier View: Upstation.

Load Cases: 61

Loadcase ID: WS1 Name:
Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Force	X	0.00	-12.30 kips	0.50		
UDL	Z		0.22 kf	0.00		1.00

Column loads

Col #	Type	Dir	Mag1	y1/L	Mag2	y2/L
1	UDL	Z	0.291 kf	0.00		1.00
1	UDL	X	-0.162 kf	0.00		1.00
2	UDL	X	-0.162 kf	0.00		0.92
2	UDL	Z	0.291 kf	0.00		0.92
3	UDL	Z	0.291 kf	0.00		1.00
3	UDL	X	-0.162 kf	0.00		1.00
4	UDL	X	0.162 kf	0.00		0.92
4	UDL	Z	-0.291 kf	0.00		0.92
5	UDL	X	0.162 kf	0.00		1.00
5	UDL	Z	-0.291 kf	0.00		1.00
6	UDL	X	0.162 kf	0.00		0.92
6	UDL	Z	-0.291 kf	0.00		0.92

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	-0.93
1	1	Y	-0.43
1	1	Z	1.08



Sheet # 12
Job # 59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Oct/29/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier 12_Ped_A1.rcp			Date

Line #	Bearing #	Dir	Load kips
1	2	X	-0.93
1	2	Y	0.00
1	2	Z	1.08
1	3	X	-0.93
1	3	Y	0.00
1	3	Z	1.08
1	4	X	-0.93
1	4	Y	0.00
1	4	Z	1.08
1	5	X	-0.93
1	5	Y	0.00
1	5	Z	1.08
1	6	X	-0.93
1	6	Y	0.00
1	6	Z	1.08
1	7	X	-0.93
1	7	Y	0.00
1	7	Z	1.08
1	8	X	-0.93
1	8	Y	0.00
1	8	Z	1.08
1	9	X	-0.93
1	9	Y	0.43
1	9	Z	1.08
2	1	X	-1.40
2	1	Y	-0.72
2	1	Z	1.63
2	2	X	-1.40
2	2	Y	0.00
2	2	Z	1.63
2	3	X	-1.40
2	3	Y	0.00
2	3	Z	1.63
2	4	X	-1.40
2	4	Y	0.00
2	4	Z	1.63
2	5	X	-1.40
2	5	Y	0.00
2	5	Z	1.63
2	6	X	-1.40
2	6	Y	0.00
2	6	Z	1.63
2	7	X	-1.40
2	7	Y	0.00
2	7	Z	1.63
2	8	X	-1.40
2	8	Y	0.00
2	8	Z	1.63
2	9	X	-1.40



Sheet # 13
Job # 59219

Program: LEAP® RC-PIER® V8i (SELECTseries 5) SE Client Licenses Designed CAM
Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 Date Oct/29/2013
www.bentley.com Phone: 1-800-778-4277 Checked
File Name: Pier 12_Ped_A1.rcp Date

Line #	Bearing #	Dir	Load kips
	9	Y	0.00
2	9	Z	1.63
2	10	X	-1.40
2	10	Y	0.72
2	10	Z	1.63

Loadcase ID: WS2 Name:
Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Force	X	0.00	-14.70 kips	0.50		
UDL	Z		0.15 kif	0.00		1.00

Column loads

Col #	Type	Dir	Mag1	y1/L	Mag2	y2/L
1	UDL	Z	0.237 kif	0.00		1.00
1	UDL	X	-0.230 kif	0.00		1.00
2	UDL	X	-0.230 kif	0.00		0.92
2	UDL	Z	0.237 kif	0.00		0.92
3	UDL	Z	0.237 kif	0.00		1.00
3	UDL	X	-0.230 kif	0.00		1.00
4	UDL	X	0.230 kif	0.00		0.92
4	UDL	Z	-0.237 kif	0.00		0.92
5	UDL	X	0.230 kif	0.00		1.00
5	UDL	Z	-0.237 kif	0.00		1.00
6	UDL	X	0.230 kif	0.00		0.92
6	UDL	Z	-0.237 kif	0.00		0.92

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	-1.22



Sheet # 14
Job # 59219

Program: LEAP® RC-PIER® V8i (SELECTseries 5) SE Client Licenses Designed CAM
Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 Date Oct/29/2013
www.bentley.com Phone: 1-800-778-4277 Checked
File Name: Pier 12_Ped_A1.rcp Date

Line #	Bearing #	Dir	Load kips
1	1	Y	-0.57
1	1	Z	0.83
1	2	X	-1.22
1	2	Y	0.00
1	2	Z	0.83
1	3	X	-1.22
1	3	Y	0.00
1	3	Z	0.83
1	4	X	-1.22
1	4	Y	0.00
1	4	Z	0.83
1	5	X	-1.22
1	5	Y	0.00
1	5	Z	0.83
1	6	X	-1.22
1	6	Y	0.00
1	6	Z	0.83
1	7	X	-1.22
1	7	Y	0.00
1	7	Z	0.83
1	8	X	-1.22
1	8	Y	0.00
1	8	Z	0.83
1	9	X	-1.22
1	9	Y	0.57
1	9	Z	0.83
2	1	X	-1.84
2	1	Y	-0.95
2	1	Z	1.25
2	2	X	-1.84
2	2	Y	0.00
2	2	Z	1.25
2	3	X	-1.84
2	3	Y	0.00
2	3	Z	1.25
2	4	X	-1.84
2	4	Y	0.00
2	4	Z	1.25
2	5	X	-1.84
2	5	Y	0.00
2	5	Z	1.25
2	6	X	-1.84
2	6	Y	0.00
2	6	Z	1.25
2	7	X	-1.84
2	7	Y	0.00
2	7	Z	1.25
2	8	X	-1.84
2	8	Y	0.00



Sheet # 15
Job # 59219

Program: LEAP® RC-PIER® V8i (SELECTseries 5) SE Client Licenses Designed CAM
Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 Date Oct/29/2013
www.bentley.com Phone: 1-800-778-4277 Checked
File Name: Pier 12_Ped_A1.rcp Date

Line #	Bearing #	Dir	Load kips
	8	Z	1.25
2	9	X	-1.84
2	9	Y	0.00
2	9	Z	1.25
2	10	X	-1.84
2	10	Y	0.95
2	10	Z	1.25

Loadcase ID: WS3 Name:
Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Force	X	0.00	-13.33 kips	0.50		
UDL	Z		0.08 klf	0.00		1.00

Column loads

Col #	Type	Dir	Mag1	y1/L	Mag2	y2/L
1	UDL	Z	0.156 klf	0.00		1.00
1	UDL	X	-0.261 klf	0.00		1.00
2	UDL	X	-0.261 klf	0.00		0.92
2	UDL	Z	0.156 klf	0.00		0.92
3	UDL	Z	0.156 klf	0.00		1.00
3	UDL	X	-0.261 klf	0.00		1.00
4	UDL	X	0.261 klf	0.00		0.92
4	UDL	Z	-0.156 klf	0.00		0.92
5	UDL	X	0.261 klf	0.00		1.00
5	UDL	Z	-0.156 klf	0.00		1.00
6	UDL	X	0.261 klf	0.00		0.92
6	UDL	Z	-0.156 klf	0.00		0.92

Bearing loads



Sheet # 16
Job # 59219

Program: LEAP® RC-PIER® V8i (SELECTseries 5) SE Client Licenses Designed CAM
Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 Date Oct/29/2013
www.bentley.com Phone: 1-800-778-4277 Checked
File Name: Pier 12_Ped_A1.rcp Date

Line #	Bearing #	Dir	Load kips
1	1	X	-2.08
1	1	Y	-0.96
1	1	Z	0.43
1	2	X	-2.08
1	2	Y	0.00
1	2	Z	0.43
1	3	X	-2.08
1	3	Y	0.00
1	3	Z	0.43
1	4	X	-2.08
1	4	Y	0.00
1	4	Z	0.43
1	5	X	-2.08
1	5	Y	0.00
1	5	Z	0.43
1	6	X	-2.08
1	6	Y	0.00
1	6	Z	0.43
1	7	X	-2.08
1	7	Y	0.00
1	7	Z	0.43
1	8	X	-2.08
1	8	Y	0.00
1	8	Z	0.43
1	9	X	-2.08
1	9	Y	0.96
1	9	Z	0.43
2	1	X	-3.13
2	1	Y	-1.61
2	1	Z	0.65
2	2	X	-3.13
2	2	Y	0.00
2	2	Z	0.65
2	3	X	-3.13
2	3	Y	0.00
2	3	Z	0.65
2	4	X	-3.13
2	4	Y	0.00
2	4	Z	0.65
2	5	X	-3.13
2	5	Y	0.00
2	5	Z	0.65
2	6	X	-3.13
2	6	Y	0.00
2	6	Z	0.65
2	7	X	-3.13
2	7	Y	0.00
2	7	Z	0.65
2	8	X	-3.13



Sheet # 17
Job # 59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Oct/29/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier 12_Ped_A1.rcp	Checked		
		Date		

Line #	Bearing #	Dir	Load kips
	8	Y	0.00
2	8	Z	0.65
2	9	X	-3.13
2	9	Y	0.00
2	9	Z	0.65
2	10	X	-3.13
2	10	Y	1.61
2	10	Z	0.65

Loadcase ID: WS4 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Force	X	0.00	-8.56 kips	0.50		
UDL	Z		0.02 klf	0.00		1.00

Column loads

Col #	Type	Dir	Mag1	y1/L	Mag2	y2/L
1	UDL	Z	0.070 klf	0.00		1.00
1	UDL	X	-0.248 klf	0.00		1.00
2	UDL	X	-0.248 klf	0.00		0.92
2	UDL	Z	0.070 klf	0.00		0.92
3	UDL	Z	0.070 klf	0.00		1.00
3	UDL	X	-0.248 klf	0.00		1.00
4	UDL	X	0.248 klf	0.00		0.92
4	UDL	Z	-0.070 klf	0.00		0.92
5	UDL	X	0.248 klf	0.00		1.00
5	UDL	Z	-0.070 klf	0.00		1.00
6	UDL	X	0.248 klf	0.00		0.92
6	UDL	Z	-0.070 klf	0.00		0.92

Bearing loads



Sheet # 18
Job # 59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Oct/29/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier 12_Ped_A1.rcp	Checked		
		Date		

Line #	Bearing #	Dir	Load kips
1	1	X	-2.47
1	1	Y	-1.14
1	1	Z	0.09
1	2	X	-2.47
1	2	Y	0.00
1	2	Z	0.09
1	3	X	-2.47
1	3	Y	0.00
1	3	Z	0.09
1	4	X	-2.47
1	4	Y	0.00
1	4	Z	0.09
1	5	X	-2.47
1	5	Y	0.00
1	5	Z	0.09
1	6	X	-2.47
1	6	Y	0.00
1	6	Z	0.09
1	7	X	-2.47
1	7	Y	0.00
1	7	Z	0.09
1	8	X	-2.47
1	8	Y	0.00
1	8	Z	0.09
1	9	X	-2.47
1	9	Y	1.14
1	9	Z	0.09
2	1	X	-3.73
2	1	Y	-1.91
2	1	Z	0.14
2	2	X	-3.73
2	2	Y	0.00
2	2	Z	0.14
2	3	X	-3.73
2	3	Y	0.00
2	3	Z	0.14
2	4	X	-3.73
2	4	Y	0.00
2	4	Z	0.14
2	5	X	-3.73
2	5	Y	0.00
2	5	Z	0.14
2	6	X	-3.73
2	6	Y	0.00
2	6	Z	0.14
2	7	X	-3.73
2	7	Y	0.00
2	7	Z	0.14
2	8	X	-3.73



Sheet # 19
Job # 59219

Program: LEAP® RC-PIER® V8i (SELECTseries 5) SE Client Licenses Designed CAM
Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 Date Oct/29/2013
www.bentley.com Phone: 1-800-778-4277 Checked
File Name: Pier 12_Ped_A1.rcp Date

Line #	Bearing #	Dir	Load kips
	8	Y	0.00
2	8	Z	0.14
2	9	X	-3.73
2	9	Y	0.00
2	9	Z	0.14
2	10	X	-3.73
2	10	Y	1.91
2	10	Z	0.14

Loadcase ID: WS5 Name:
Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Force	X	0.00	-1.66 kips	0.50		
UDL	Z		0.00 klf	0.00		1.00

Column loads

Col #	Type	Dir	Mag1	y1/L	Mag2	y2/L
1	UDL	Z	0.003 klf	0.00		1.00
1	UDL	X	-0.194 klf	0.00		1.00
2	UDL	X	-0.194 klf	0.00		0.92
2	UDL	Z	0.003 klf	0.00		0.92
3	UDL	Z	0.003 klf	0.00		1.00
3	UDL	X	-0.194 klf	0.00		1.00
4	UDL	X	0.194 klf	0.00		0.92
4	UDL	Z	-0.003 klf	0.00		0.92
5	UDL	X	0.194 klf	0.00		1.00
5	UDL	Z	-0.003 klf	0.00		1.00
6	UDL	X	0.194 klf	0.00		0.92
6	UDL	Z	-0.003 klf	0.00		0.92

Bearing loads



Sheet # 20
Job # 59219

Program: LEAP® RC-PIER® V8i (SELECTseries 5) SE Client Licenses Designed CAM
Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 Date Oct/29/2013
www.bentley.com Phone: 1-800-778-4277 Checked
File Name: Pier 12_Ped_A1.rcp Date

Line #	Bearing #	Dir	Load kips
1	1	X	-2.55
1	1	Y	-1.18
1	1	Z	-0.29
1	2	X	-2.55
1	2	Y	0.00
1	2	Z	-0.29
1	3	X	-2.55
1	3	Y	0.00
1	3	Z	-0.29
1	4	X	-2.55
1	4	Y	0.00
1	4	Z	-0.29
1	5	X	-2.55
1	5	Y	0.00
1	5	Z	-0.29
1	6	X	-2.55
1	6	Y	0.00
1	6	Z	-0.29
1	7	X	-2.55
1	7	Y	0.00
1	7	Z	-0.29
1	8	X	-2.55
1	8	Y	0.00
1	8	Z	-0.29
1	9	X	-2.55
1	9	Y	1.18
1	9	Z	-0.29
2	1	X	-3.85
2	1	Y	-1.98
2	1	Z	-0.43
2	2	X	-3.85
2	2	Y	0.00
2	2	Z	-0.43
2	3	X	-3.85
2	3	Y	0.00
2	3	Z	-0.43
2	4	X	-3.85
2	4	Y	0.00
2	4	Z	-0.43
2	5	X	-3.85
2	5	Y	0.00
2	5	Z	-0.43
2	6	X	-3.85
2	6	Y	0.00
2	6	Z	-0.43
2	7	X	-3.85
2	7	Y	0.00
2	7	Z	-0.43
2	8	X	-3.85



Sheet #	21
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Oct/29/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier 12_Ped_A1.rcp	Date		

Line #	Bearing #	Dir	Load kips
	8	Y	0.00
2	8	Z	-0.43
2	9	X	-3.85
2	9	Y	0.00
2	9	Z	-0.43
2	10	X	-3.85
2	10	Y	1.98
2	10	Z	-0.43

Loadcase ID: WS6 Name:
Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Force	X	0.00	-7.86 kips	0.50		
UDL	Z		-0.02 kif	0.00		1.00

Column loads

Col #	Type	Dir	Mag1	y1/L	Mag2	y2/L
1	UDL	Z	-0.061 kif	0.00		1.00
1	UDL	X	-0.244 kif	0.00		1.00
2	UDL	X	-0.244 kif	0.00		0.92
2	UDL	Z	-0.061 kif	0.00		0.92
3	UDL	Z	-0.061 kif	0.00		1.00
3	UDL	X	-0.244 kif	0.00		1.00
4	UDL	X	0.244 kif	0.00		0.92
4	UDL	Z	0.061 kif	0.00		0.92
5	UDL	X	0.244 kif	0.00		1.00
5	UDL	Z	0.061 kif	0.00		1.00
6	UDL	X	0.244 kif	0.00		0.92
6	UDL	Z	0.061 kif	0.00		0.92

Bearing loads



Sheet #	22
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Oct/29/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier 12_Ped_A1.rcp	Date		

Line #	Bearing #	Dir	Load kips
1	1	X	-2.80
1	1	Y	-15.04
1	1	Z	-0.71
1	2	X	-2.80
1	2	Y	9.73
1	2	Z	-0.71
1	3	X	-2.80
1	3	Y	9.73
1	3	Z	-0.71
1	4	X	-2.80
1	4	Y	9.73
1	4	Z	-0.71
1	5	X	-2.80
1	5	Y	9.73
1	5	Z	-0.71
1	6	X	-2.80
1	6	Y	9.73
1	6	Z	-0.71
1	7	X	-2.80
1	7	Y	9.73
1	7	Z	-0.71
1	8	X	-2.80
1	8	Y	9.73
1	8	Z	-0.71
1	9	X	-2.80
1	9	Y	34.49
1	9	Z	-0.71
2	1	X	-4.23
2	1	Y	-26.84
2	1	Z	-1.07
2	2	X	-4.23
2	2	Y	14.67
2	2	Z	-1.07
2	3	X	-4.23
2	3	Y	14.67
2	3	Z	-1.07
2	4	X	-4.23
2	4	Y	14.67
2	4	Z	-1.07
2	5	X	-4.23
2	5	Y	14.67
2	5	Z	-1.07
2	6	X	-4.23
2	6	Y	14.67
2	6	Z	-1.07
2	7	X	-4.23
2	7	Y	14.67
2	7	Z	-1.07
2	8	X	-4.23



Sheet #	23
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Oct/29/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier 12_Ped_A1.rcp	Checked	Date	

Line #	Bearing #	Dir	Load kips
	8	Y	14.67
2	8	Z	-1.07
2	9	X	-4.23
2	9	Y	14.67
2	9	Z	-1.07
2	10	X	-4.23
2	10	Y	56.18
2	10	Z	-1.07

Loadcase ID: WS7 Name:
Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Force	X	0.00	-12.95 kips	0.50		
UDL	Z		-0.07 klf	0.00		1.00

Column loads

Col #	Type	Dir	Mag1	y1/L	Mag2	y2/L
1	UDL	Z	-0.146 klf	0.00		1.00
1	UDL	X	-0.262 klf	0.00		1.00
2	UDL	X	-0.262 klf	0.00		0.92
2	UDL	Z	-0.146 klf	0.00		0.92
3	UDL	Z	-0.146 klf	0.00		1.00
3	UDL	X	-0.262 klf	0.00		1.00
4	UDL	X	0.262 klf	0.00		0.92
4	UDL	Z	0.146 klf	0.00		0.92
5	UDL	X	0.262 klf	0.00		1.00
5	UDL	Z	0.146 klf	0.00		1.00
6	UDL	X	0.262 klf	0.00		0.92
6	UDL	Z	0.146 klf	0.00		0.92

Bearing loads



Sheet #	24
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Oct/29/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier 12_Ped_A1.rcp	Checked	Date	

Line #	Bearing #	Dir	Load kips
1	1	X	-2.38
1	1	Y	-1.10
1	1	Z	-0.96
1	2	X	-2.38
1	2	Y	0.00
1	2	Z	-0.96
1	3	X	-2.38
1	3	Y	0.00
1	3	Z	-0.96
1	4	X	-2.38
1	4	Y	0.00
1	4	Z	-0.96
1	5	X	-2.38
1	5	Y	0.00
1	5	Z	-0.96
1	6	X	-2.38
1	6	Y	0.00
1	6	Z	-0.96
1	7	X	-2.38
1	7	Y	0.00
1	7	Z	-0.96
1	8	X	-2.38
1	8	Y	0.00
1	8	Z	-0.96
1	9	X	-2.38
1	9	Y	1.10
1	9	Z	-0.96
2	1	X	-3.60
2	1	Y	-1.85
2	1	Z	-1.45
2	2	X	-3.60
2	2	Y	0.00
2	2	Z	-1.45
2	3	X	-3.60
2	3	Y	0.00
2	3	Z	-1.45
2	4	X	-3.60
2	4	Y	0.00
2	4	Z	-1.45
2	5	X	-3.60
2	5	Y	0.00
2	5	Z	-1.45
2	6	X	-3.60
2	6	Y	0.00
2	6	Z	-1.45
2	7	X	-3.60
2	7	Y	0.00
2	7	Z	-1.45
2	8	X	-3.60



Sheet #	25
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Oct/29/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier 12_Ped_A1.rcp	Checked		
		Date		

Line #	Bearing #	Dir	Load kips
	8	Y	0.00
2	8	Z	-1.45
2	9	X	-3.60
2	9	Y	0.00
2	9	Z	-1.45
2	10	X	-3.60
2	10	Y	1.85
2	10	Z	-1.45

Loadcase ID: WS8 Name:
Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Force	X	0.00	-14.74 kips	0.50		
UDL	Z		-0.14 klf	0.00		1.00

Column loads

Col #	Type	Dir	Mag1	y1/L	Mag2	y2/L
1	UDL	Z	-0.228 klf	0.00		1.00
1	UDL	X	-0.235 klf	0.00		1.00
2	UDL	X	-0.235 klf	0.00		0.92
2	UDL	Z	-0.228 klf	0.00		0.92
3	UDL	Z	-0.228 klf	0.00		1.00
3	UDL	X	-0.235 klf	0.00		1.00
4	UDL	X	0.235 klf	0.00		0.92
4	UDL	Z	0.228 klf	0.00		0.92
5	UDL	X	0.235 klf	0.00		1.00
5	UDL	Z	0.228 klf	0.00		1.00
6	UDL	X	0.235 klf	0.00		0.92
6	UDL	Z	0.228 klf	0.00		0.92

Bearing loads



Sheet #	26
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Oct/29/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier 12_Ped_A1.rcp	Checked		
		Date		

Line #	Bearing #	Dir	Load kips
1	1	X	-2.13
1	1	Y	-0.98
1	1	Z	-1.25
1	2	X	-2.13
1	2	Y	0.00
1	2	Z	-1.25
1	3	X	-2.13
1	3	Y	0.00
1	3	Z	-1.25
1	4	X	-2.13
1	4	Y	0.00
1	4	Z	-1.25
1	5	X	-2.13
1	5	Y	0.00
1	5	Z	-1.25
1	6	X	-2.13
1	6	Y	0.00
1	6	Z	-1.25
1	7	X	-2.13
1	7	Y	0.00
1	7	Z	-1.25
1	8	X	-2.13
1	8	Y	0.00
1	8	Z	-1.25
1	9	X	-2.13
1	9	Y	0.98
1	9	Z	-1.25
2	1	X	-3.21
2	1	Y	-1.65
2	1	Z	-1.89
2	2	X	-3.21
2	2	Y	0.00
2	2	Z	-1.89
2	3	X	-3.21
2	3	Y	0.00
2	3	Z	-1.89
2	4	X	-3.21
2	4	Y	0.00
2	4	Z	-1.89
2	5	X	-3.21
2	5	Y	0.00
2	5	Z	-1.89
2	6	X	-3.21
2	6	Y	0.00
2	6	Z	-1.89
2	7	X	-3.21
2	7	Y	0.00
2	7	Z	-1.89
2	8	X	-3.21



Sheet #	27
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Oct/29/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier 12_Ped_A1.rcp	Date		

Line #	Bearing #	Dir	Load kips
	8	Y	0.00
2	8	Z	-1.89
2	9	X	-3.21
2	9	Y	0.00
2	9	Z	-1.89
2	10	X	-3.21
2	10	Y	1.65
2	10	Z	-1.89

Loadcase ID: WS9 Name:
Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Force	X	0.00	-12.75 kips	0.50		
UDL	Z		-0.21 klf	0.00		1.00

Column loads

Col #	Type	Dir	Mag1	y1/L	Mag2	y2/L
1	UDL	Z	-0.287 klf	0.00		1.00
1	UDL	X	-0.171 klf	0.00		1.00
2	UDL	X	-0.171 klf	0.00		0.92
2	UDL	Z	-0.287 klf	0.00		0.92
3	UDL	Z	-0.287 klf	0.00		1.00
3	UDL	X	-0.171 klf	0.00		1.00
4	UDL	X	0.171 klf	0.00		0.92
4	UDL	Z	0.287 klf	0.00		0.92
5	UDL	X	0.171 klf	0.00		1.00
5	UDL	Z	0.287 klf	0.00		1.00
6	UDL	X	0.171 klf	0.00		0.92
6	UDL	Z	0.287 klf	0.00		0.92

Bearing loads



Sheet #	28
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Oct/29/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier 12_Ped_A1.rcp	Date		

Line #	Bearing #	Dir	Load kips
1	1	X	-1.62
1	1	Y	-0.75
1	1	Z	-1.36
1	2	X	-1.62
1	2	Y	0.00
1	2	Z	-1.36
1	3	X	-1.62
1	3	Y	0.00
1	3	Z	-1.36
1	4	X	-1.62
1	4	Y	0.00
1	4	Z	-1.36
1	5	X	-1.62
1	5	Y	0.00
1	5	Z	-1.36
1	6	X	-1.62
1	6	Y	0.00
1	6	Z	-1.36
1	7	X	-1.62
1	7	Y	0.00
1	7	Z	-1.36
1	8	X	-1.62
1	8	Y	0.00
1	8	Z	-1.36
1	9	X	-1.62
1	9	Y	0.75
1	9	Z	-1.36
2	1	X	-2.45
2	1	Y	-1.26
2	1	Z	-2.06
2	2	X	-2.45
2	2	Y	0.00
2	2	Z	-2.06
2	3	X	-2.45
2	3	Y	0.00
2	3	Z	-2.06
2	4	X	-2.45
2	4	Y	0.00
2	4	Z	-2.06
2	5	X	-2.45
2	5	Y	0.00
2	5	Z	-2.06
2	6	X	-2.45
2	6	Y	0.00
2	6	Z	-2.06
2	7	X	-2.45
2	7	Y	0.00
2	7	Z	-2.06
2	8	X	-2.45



Sheet # 29
Job # 59219

Program: LEAP® RC-PIER® V8i (SELECTseries 5) SE Client Licenses Designed CAM
Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 Date Oct/29/2013
www.bentley.com Phone: 1-800-778-4277 Checked
File Name: Pier 12_Ped_A1.rcp Date

Line #	Bearing #	Dir	Load kips
	8	Y	0.00
2	8	Z	-2.06
2	9	X	-2.45
2	9	Y	0.00
2	9	Z	-2.06
2	10	X	-2.45
2	10	Y	1.26
2	10	Z	-2.06

Loadcase ID: WS10 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Force	X	0.00	-7.50 kips	0.50		
UDL	Z		-0.26 klf	0.00		1.00

Column loads

Col #	Type	Dir	Mag1	y1/L	Mag2	y2/L
1	UDL	Z	-0.305 klf	0.00		1.00
1	UDL	X	-0.087 klf	0.00		1.00
2	UDL	X	-0.087 klf	0.00		0.92
2	UDL	Z	-0.305 klf	0.00		0.92
3	UDL	Z	-0.305 klf	0.00		1.00
3	UDL	X	-0.087 klf	0.00		1.00
4	UDL	X	0.087 klf	0.00		0.92
4	UDL	Z	0.305 klf	0.00		0.92
5	UDL	X	0.087 klf	0.00		1.00
5	UDL	Z	0.305 klf	0.00		1.00
6	UDL	X	0.087 klf	0.00		0.92
6	UDL	Z	0.305 klf	0.00		0.92

Bearing loads



Sheet # 30
Job # 59219

Program: LEAP® RC-PIER® V8i (SELECTseries 5) SE Client Licenses Designed CAM
Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 Date Oct/29/2013
www.bentley.com Phone: 1-800-778-4277 Checked
File Name: Pier 12_Ped_A1.rcp Date

Line #	Bearing #	Dir	Load kips
1	1	X	-0.68
1	1	Y	-0.32
1	1	Z	-1.31
1	2	X	-0.68
1	2	Y	0.00
1	2	Z	-1.31
1	3	X	-0.68
1	3	Y	0.00
1	3	Z	-1.31
1	4	X	-0.68
1	4	Y	0.00
1	4	Z	-1.31
1	5	X	-0.68
1	5	Y	0.00
1	5	Z	-1.31
1	6	X	-0.68
1	6	Y	0.00
1	6	Z	-1.31
1	7	X	-0.68
1	7	Y	0.00
1	7	Z	-1.31
1	8	X	-0.68
1	8	Y	0.00
1	8	Z	-1.31
1	9	X	-0.68
1	9	Y	0.32
1	9	Z	-1.31
2	1	X	-1.03
2	1	Y	-0.53
2	1	Z	-1.97
2	2	X	-1.03
2	2	Y	0.00
2	2	Z	-1.97
2	3	X	-1.03
2	3	Y	0.00
2	3	Z	-1.97
2	4	X	-1.03
2	4	Y	0.00
2	4	Z	-1.97
2	5	X	-1.03
2	5	Y	0.00
2	5	Z	-1.97
2	6	X	-1.03
2	6	Y	0.00
2	6	Z	-1.97
2	7	X	-1.03
2	7	Y	0.00
2	7	Z	-1.97
2	8	X	-1.03



Sheet #	31
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Oct/29/2013
File Name:		Pier 12_Ped_A1.rcp	Checked	
			Date	

Line #	Bearing #	Dir	Load kips
	8	Y	0.00
2	8	Z	-1.97
2	9	X	-1.03
2	9	Y	0.00
2	9	Z	-1.97
2	10	X	-1.03
2	10	Y	0.53
2	10	Z	-1.97

Loadcase ID: WS11 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Force	X	0.00	-0.42 kips	0.50		
UDL	Z		-0.28 kif	0.00		1.00

Column loads

Col #	Type	Dir	Mag1	y1/L	Mag2	y2/L
1	UDL	Z	-0.278 kif	0.00		1.00
1	UDL	X	-0.004 kif	0.00		1.00
2	UDL	X	-0.004 kif	0.00		0.92
2	UDL	Z	-0.278 kif	0.00		0.92
3	UDL	Z	-0.278 kif	0.00		1.00
3	UDL	X	-0.004 kif	0.00		1.00
4	UDL	X	0.004 kif	0.00		0.92
4	UDL	Z	0.278 kif	0.00		0.92
5	UDL	X	0.004 kif	0.00		1.00
5	UDL	Z	0.278 kif	0.00		1.00
6	UDL	X	0.004 kif	0.00		0.92
6	UDL	Z	0.278 kif	0.00		0.92

Bearing loads



Sheet #	32
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Oct/29/2013
File Name:		Pier 12_Ped_A1.rcp	Checked	
			Date	

Line #	Bearing #	Dir	Load kips
1	1	X	-0.31
1	1	Y	-0.14
1	1	Z	-1.39
1	2	X	-0.31
1	2	Y	0.00
1	2	Z	-1.39
1	3	X	-0.31
1	3	Y	0.00
1	3	Z	-1.39
1	4	X	-0.31
1	4	Y	0.00
1	4	Z	-1.39
1	5	X	-0.31
1	5	Y	0.00
1	5	Z	-1.39
1	6	X	-0.31
1	6	Y	0.00
1	6	Z	-1.39
1	7	X	-0.31
1	7	Y	0.00
1	7	Z	-1.39
1	8	X	-0.31
1	8	Y	0.00
1	8	Z	-1.39
1	9	X	-0.31
1	9	Y	0.14
1	9	Z	-1.39
2	1	X	-0.46
2	1	Y	-0.24
2	1	Z	-2.10
2	2	X	-0.46
2	2	Y	0.00
2	2	Z	-2.10
2	3	X	-0.46
2	3	Y	0.00
2	3	Z	-2.10
2	4	X	-0.46
2	4	Y	0.00
2	4	Z	-2.10
2	5	X	-0.46
2	5	Y	0.00
2	5	Z	-2.10
2	6	X	-0.46
2	6	Y	0.00
2	6	Z	-2.10
2	7	X	-0.46
2	7	Y	0.00
2	7	Z	-2.10
2	8	X	-0.46



Sheet # 33
Job # 59219

Program: LEAP® RC-PIER® V8i (SELECTseries 5) SE Client Licenses Designed CAM
Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 Date Oct/29/2013
www.bentley.com Phone: 1-800-778-4277 Checked
File Name: Pier 12_Ped_A1.rcp Date

Line #	Bearing #	Dir	Load kips
	8	Y	0.00
2	8	Z	-2.10
2	9	X	-0.46
2	9	Y	0.00
2	9	Z	-2.10
2	10	X	-0.46
2	10	Y	0.24
2	10	Z	-2.10

Loadcase ID: WS12 Name:
Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Force	X	0.00	-12.30 kips	0.50		
UDL	Z		0.22 kif	0.00		1.00

Column loads

Col #	Type	Dir	Mag1	y1/L	Mag2	y2/L
1	UDL	Z	0.291 kif	0.00		1.00
1	UDL	X	-0.162 kif	0.00		1.00
2	UDL	X	-0.162 kif	0.00		0.92
2	UDL	Z	0.291 kif	0.00		0.92
3	UDL	Z	0.291 kif	0.00		1.00
3	UDL	X	-0.162 kif	0.00		1.00
4	UDL	X	0.162 kif	0.00		0.92
4	UDL	Z	-0.291 kif	0.00		0.92
5	UDL	X	0.162 kif	0.00		1.00
5	UDL	Z	-0.291 kif	0.00		1.00
6	UDL	X	0.162 kif	0.00		0.92
6	UDL	Z	-0.291 kif	0.00		0.92
1	Force	X	0.000 kips	0.00		



Sheet # 34
Job # 59219

Program: LEAP® RC-PIER® V8i (SELECTseries 5) SE Client Licenses Designed CAM
Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 Date Oct/29/2013
www.bentley.com Phone: 1-800-778-4277 Checked
File Name: Pier 12_Ped_A1.rcp Date

Bearing loads

Line #	Bearing #	Dir	Load kips
1	12	Z	1.28
1	12	Y	-0.62
1	12	X	-1.10
1	13	Z	1.28
1	13	Y	0.00
1	13	X	-1.10
1	14	Z	1.28
1	14	Y	0.00
1	14	X	-1.10
1	15	Z	1.28
1	15	Y	0.00
1	15	X	-1.10
1	16	Z	1.28
1	16	Y	0.00
1	16	X	-1.10
1	17	X	-1.10
1	17	Y	0.00
1	17	Z	1.28
1	18	Z	1.28
1	18	Y	0.00
1	18	X	-1.10
1	19	Z	1.28
1	19	Y	0.00
1	19	X	-1.10
1	20	Z	1.28
1	20	Y	0.00
1	20	X	-1.10
2	13	X	1.28
2	13	Y	0.00
2	13	Z	-1.10
2	14	X	1.28
2	14	Y	0.62
2	14	Z	-1.10
2	15	X	-1.40
2	15	Y	-0.72
2	15	Z	1.63
2	16	X	-1.40
2	16	Y	0.00
2	16	Z	1.63
2	17	X	-1.40
2	17	Y	0.00
2	17	Z	1.63
2	18	X	-1.40
2	18	Y	0.00
2	18	Z	1.63
2	19	X	-1.40
2	19	Y	0.00
2	19	Z	1.63



Sheet # 35
Job # 59219

Program: LEAP® RC-PIER® V8i (SELECTseries 5) SE Client Licenses Designed CAM
Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 Date Oct/29/2013
www.bentley.com Phone: 1-800-778-4277 Checked
File Name: Pier 12_Ped_A1.rcp Date

Line #	Bearing #	Dir	Load kips
	20	X	-1.40
2	20	Y	0.00
2	20	Z	1.63
2	21	X	-1.40
2	21	Y	0.00
2	21	Z	1.63
2	22	X	-1.40
2	22	Y	0.00
2	22	Z	1.63
1	21	Z	-1.40
1	21	Y	0.00
1	21	X	1.63
1	22	Z	-1.40
1	22	Y	0.72
1	22	X	1.63
1	1	X	0.00

Loadcase ID: WS13 Name:
Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Force	X	0.00	-14.70 kips	0.50		
UDL	Z		0.15 kif	0.00		1.00

Column loads

Col #	Type	Dir	Mag1	y1/L	Mag2	y2/L
1	UDL	Z	0.237 kif	0.00		1.00
1	UDL	X	-0.230 kif	0.00		1.00
2	UDL	X	-0.230 kif	0.00		0.92
2	UDL	Z	0.237 kif	0.00		0.92
3	UDL	Z	0.237 kif	0.00		1.00
3	UDL	X	-0.230 kif	0.00		1.00
4	UDL	X	0.230 kif	0.00		0.92
4	UDL	Z	-0.237 kif	0.00		0.92
5	UDL	X	0.230 kif	0.00		1.00



Sheet # 36
Job # 59219

Program: LEAP® RC-PIER® V8i (SELECTseries 5) SE Client Licenses Designed CAM
Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 Date Oct/29/2013
www.bentley.com Phone: 1-800-778-4277 Checked
File Name: Pier 12_Ped_A1.rcp Date

Col #	Type	Dir	Mag1	y1/L	Mag2	y2/L
5	UDL	Z	-0.237 kif	0.00		1.00
6	UDL	X	0.230 kif	0.00		0.92
6	UDL	Z	-0.237 kif	0.00		0.92
1	Force	X	0.000 kips	0.00		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	12	Z	0.98
1	12	Y	-0.82
1	12	X	-1.45
1	13	Z	0.98
1	13	Y	0.00
1	13	X	-1.45
1	14	Z	0.98
1	14	Y	0.00
1	14	X	-1.45
1	15	Z	0.98
1	15	Y	0.00
1	15	X	-1.45
1	16	Z	0.98
1	16	Y	0.00
1	16	X	-1.45
1	17	X	-1.45
1	17	Y	0.00
1	17	Z	0.98
1	18	Z	0.98
1	18	Y	0.00
1	18	X	-1.45
1	19	Z	0.98
1	19	Y	0.00
1	19	X	-1.45
1	20	Z	0.98
1	20	Y	0.00
1	20	X	-1.45
2	13	X	0.98
2	13	Y	0.00
2	13	Z	-1.45
2	14	X	0.98
2	14	Y	0.82
2	14	Z	-1.45
2	15	X	-1.84
2	15	Y	-0.94
2	15	Z	1.25
2	16	X	-1.84
2	16	Y	0.00
2	16	Z	1.25



Sheet # 37
Job # 59219

Program: LEAP® RC-PIER® V8i (SELECTseries 5) SE Client Licenses Designed CAM
Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 Date Oct/29/2013
www.bentley.com Phone: 1-800-778-4277 Checked
File Name: Pier 12_Ped_A1.rcp Date

Line #	Bearing #	Dir	Load kips
2	17	X	-1.84
2	17	Y	0.00
2	17	Z	1.25
2	18	X	-1.84
2	18	Y	0.00
2	18	Z	1.25
2	19	X	-1.84
2	19	Y	0.00
2	19	Z	1.25
2	20	X	-1.84
2	20	Y	0.00
2	20	Z	1.25
2	21	X	-1.84
2	21	Y	0.00
2	21	Z	1.25
2	22	X	-1.84
2	22	Y	0.00
2	22	Z	1.25
1	21	Z	-1.84
1	21	Y	0.00
1	21	X	1.25
1	22	Z	-1.84
1	22	Y	0.94
1	22	X	1.25
1	1	X	0.00

Loadcase ID: WS14 Name:
Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Force	X	0.00	-13.33 kips	0.50		
UDL	Z		0.08 kif	0.00		1.00

Column loads

Col #	Type	Dir	Mag1	y1/L	Mag2	y2/L



Sheet # 38
Job # 59219

Program: LEAP® RC-PIER® V8i (SELECTseries 5) SE Client Licenses Designed CAM
Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 Date Oct/29/2013
www.bentley.com Phone: 1-800-778-4277 Checked
File Name: Pier 12_Ped_A1.rcp Date

Col #	Type	Dir	Mag1	y1/L	Mag2	y2/L
1	UDL	Z	0.156 kif	0.00		1.00
1	UDL	X	-0.261 kif	0.00		1.00
2	UDL	X	-0.261 kif	0.00		0.92
2	UDL	Z	0.156 kif	0.00		0.92
3	UDL	Z	0.156 kif	0.00		1.00
3	UDL	X	-0.261 kif	0.00		1.00
4	UDL	X	0.261 kif	0.00		0.92
4	UDL	Z	-0.156 kif	0.00		0.92
5	UDL	X	0.261 kif	0.00		1.00
5	UDL	Z	-0.156 kif	0.00		1.00
6	UDL	X	0.261 kif	0.00		0.92
6	UDL	Z	-0.156 kif	0.00		0.92
1	Force	X	0.000 kips	0.00		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	12	Z	0.51
1	12	Y	-1.39
1	12	X	-2.47
1	13	Z	0.51
1	13	Y	0.00
1	13	X	-2.47
1	14	Z	0.51
1	14	Y	0.00
1	14	X	-2.47
1	15	Z	0.51
1	15	Y	0.00
1	15	X	-2.47
1	16	Z	0.51
1	16	Y	0.00
1	16	X	-2.47
1	17	X	-2.47
1	17	Y	0.00
1	17	Z	0.51
1	18	Z	0.51
1	18	Y	0.00
1	18	X	-2.47
1	19	Z	0.51
1	19	Y	0.00
1	19	X	-2.47
1	20	Z	0.51
1	20	Y	0.00
1	20	X	-2.47
2	13	X	0.51
2	13	Y	0.00
2	13	Z	-2.47



Sheet # 39
Job # 59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Oct/29/2013
File Name:		www.bentley.com	Phone:	1-800-778-4277
File Name:		Pier 12_Ped_A1.rcp	Checked	
			Date	

Line #	Bearing #	Dir	Load kips
2	14	X	0.51
2	14	Y	1.39
2	14	Z	-2.47
2	15	X	-3.13
2	15	Y	-1.60
2	15	Z	0.65
2	16	X	-3.13
2	16	Y	0.00
2	16	Z	0.65
2	17	X	-3.13
2	17	Y	0.00
2	17	Z	0.65
2	18	X	-3.13
2	18	Y	0.00
2	18	Z	0.65
2	19	X	-3.13
2	19	Y	0.00
2	19	Z	0.65
2	20	X	-3.13
2	20	Y	0.00
2	20	Z	0.65
2	21	X	-3.13
2	21	Y	0.00
2	21	Z	0.65
2	22	X	-3.13
2	22	Y	0.00
2	22	Z	0.65
1	21	Z	-3.13
1	21	Y	0.00
1	21	X	0.65
1	22	Z	-3.13
1	22	Y	1.60
1	22	X	0.65
1	1	X	0.00

Loadcase ID: WS15 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 40
Job # 59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Oct/29/2013
File Name:		www.bentley.com	Phone:	1-800-778-4277
File Name:		Pier 12_Ped_A1.rcp	Checked	
			Date	

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Force	X	0.00	-8.56 kips	0.50		
UDL	Z		0.02 kif	0.00		1.00

Column loads

Col #	Type	Dir	Mag1	y1/L	Mag2	y2/L
1	UDL	Z	0.070 kif	0.00		1.00
1	UDL	X	-0.248 kif	0.00		1.00
2	UDL	X	-0.248 kif	0.00		0.92
2	UDL	Z	0.070 kif	0.00		0.92
3	UDL	Z	0.070 kif	0.00		1.00
3	UDL	X	-0.248 kif	0.00		1.00
4	UDL	X	0.248 kif	0.00		0.92
4	UDL	Z	-0.070 kif	0.00		0.92
5	UDL	X	0.248 kif	0.00		1.00
5	UDL	Z	-0.070 kif	0.00		1.00
6	UDL	X	0.248 kif	0.00		0.92
6	UDL	Z	-0.070 kif	0.00		0.92
1	Force	X	0.000 kips	0.00		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	12	Z	0.11
1	12	Y	-1.65
1	12	X	-2.93
1	13	Z	0.11
1	13	Y	0.00
1	13	X	-2.93
1	14	Z	0.11
1	14	Y	0.00
1	14	X	-2.93
1	15	Z	0.11
1	15	Y	0.00
1	15	X	-2.93
1	16	Z	0.11
1	16	Y	0.00
1	16	X	-2.93
1	17	X	-2.93
1	17	Y	0.00
1	17	Z	0.11
1	18	Z	0.11
1	18	Y	0.00

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 41
Job # 59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Oct/29/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier 12_Ped_A1.rcp	Checked	Date	

Line #	Bearing #	Dir	Load kips
1	18	X	-2.93
1	19	Z	0.11
1	19	Y	0.00
1	19	X	-2.93
1	20	Z	0.11
1	20	Y	0.00
1	20	X	-2.93
2	13	X	0.11
2	13	Y	0.00
2	13	Z	-2.93
2	14	X	0.11
2	14	Y	1.65
2	14	Z	-2.93
2	15	X	-3.73
2	15	Y	-1.90
2	15	Z	0.14
2	16	X	-3.73
2	16	Y	0.00
2	16	Z	0.14
2	17	X	-3.73
2	17	Y	0.00
2	17	Z	0.14
2	18	X	-3.73
2	18	Y	0.00
2	18	Z	0.14
2	19	X	-3.73
2	19	Y	0.00
2	19	Z	0.14
2	20	X	-3.73
2	20	Y	0.00
2	20	Z	0.14
2	21	X	-3.73
2	21	Y	0.00
2	21	Z	0.14
2	22	X	-3.73
2	22	Y	0.00
2	22	Z	0.14
1	21	Z	-3.73
1	21	Y	0.00
1	21	X	0.14
1	22	Z	-3.73
1	22	Y	1.90
1	22	X	0.14
1	1	X	0.00

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 42
Job # 59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Oct/29/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier 12_Ped_A1.rcp	Checked	Date	

Loadcase ID: WS16 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Force	X	0.00	-1.66 kips	0.50		
UDL	Z		0.00 kif	0.00		1.00

Column loads

Col #	Type	Dir	Mag1	y1/L	Mag2	y2/L
1	UDL	Z	0.003 kif	0.00		1.00
1	UDL	X	-0.194 kif	0.00		1.00
2	UDL	X	-0.194 kif	0.00		0.92
2	UDL	Z	0.003 kif	0.00		0.92
3	UDL	Z	0.003 kif	0.00		1.00
3	UDL	X	-0.194 kif	0.00		1.00
4	UDL	X	0.194 kif	0.00		0.92
4	UDL	Z	-0.003 kif	0.00		0.92
5	UDL	X	0.194 kif	0.00		1.00
5	UDL	Z	-0.003 kif	0.00		1.00
6	UDL	X	0.194 kif	0.00		0.92
6	UDL	Z	-0.003 kif	0.00		0.92
1	Force	X	0.000 kips	0.00		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	12	Z	-0.34
1	12	Y	-1.70
1	12	X	-3.03
1	13	Z	-0.34
1	13	Y	0.00
1	13	X	-3.03
1	14	Z	-0.34
1	14	Y	0.00
1	14	X	-3.03
1	15	Z	-0.34
1	15	Y	0.00
1	15	X	-3.03

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 43
Job # 59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Oct/29/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier 12_Ped_A1.rcp			Date

Line #	Bearing #	Dir	Load kips
1	16	Z	-0.34
1	16	Y	0.00
1	16	X	-3.03
1	17	X	-3.03
1	17	Y	0.00
1	17	Z	-0.34
1	18	Z	-0.34
1	18	Y	0.00
1	18	X	-3.03
1	19	Z	-0.34
1	19	Y	0.00
1	19	X	-3.03
1	20	Z	-0.34
1	20	Y	0.00
1	20	X	-3.03
2	13	X	-0.34
2	13	Y	0.00
2	13	Z	-3.03
2	14	X	-0.34
2	14	Y	1.70
2	14	Z	-3.03
2	15	X	-3.85
2	15	Y	-1.97
2	15	Z	-0.43
2	16	X	-3.85
2	16	Y	0.00
2	16	Z	-0.43
2	17	X	-3.85
2	17	Y	0.00
2	17	Z	-0.43
2	18	X	-3.85
2	18	Y	0.00
2	18	Z	-0.43
2	19	X	-3.85
2	19	Y	0.00
2	19	Z	-0.43
2	20	X	-3.85
2	20	Y	0.00
2	20	Z	-0.43
2	21	X	-3.85
2	21	Y	0.00
2	21	Z	-0.43
2	22	X	-3.85
2	22	Y	0.00
2	22	Z	-0.43
1	21	Z	-3.85
1	21	Y	0.00
1	21	X	-0.43
1	22	Z	-3.85

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 44
Job # 59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Oct/29/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier 12_Ped_A1.rcp			Date

Line #	Bearing #	Dir	Load kips
	22	Y	1.97
1	22	X	-0.43
1	1	X	0.00

Loadcase ID: WS17 Name:
Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Force	X	0.00	-7.86 kips	0.50		
UDL	Z		-0.02 kif	0.00		1.00

Column loads

Col #	Type	Dir	Mag1	y1/L	Mag2	y2/L
1	UDL	Z	-0.061 kif	0.00		1.00
1	UDL	X	-0.244 kif	0.00		1.00
2	UDL	X	-0.244 kif	0.00		0.92
2	UDL	Z	-0.061 kif	0.00		0.92
3	UDL	Z	-0.061 kif	0.00		1.00
3	UDL	X	-0.244 kif	0.00		1.00
4	UDL	X	0.244 kif	0.00		0.92
4	UDL	Z	0.061 kif	0.00		0.92
5	UDL	X	0.244 kif	0.00		1.00
5	UDL	Z	0.061 kif	0.00		1.00
6	UDL	X	0.244 kif	0.00		0.92
6	UDL	Z	0.061 kif	0.00		0.92
1	Force	X	0.000 kips	0.00		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	12	Z	-0.84
1	12	Y	-24.21

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 45
Job # 59219

Program: LEAP® RC-PIER® V8i (SELECTseries 5) SE Client Licenses Designed CAM
Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 Date Oct/29/2013
www.bentley.com Phone: 1-800-778-4277 Checked
File Name: Pier 12_Ped_A1.rcp Date

Line #	Bearing #	Dir	Load kips
1	12	X	-3.33
1	13	Z	-0.84
1	13	Y	11.55
1	13	X	-3.33
1	14	Z	-0.84
1	14	Y	11.55
1	14	X	-3.33
1	15	Z	-0.84
1	15	Y	11.55
1	15	X	-3.33
1	16	Z	-0.84
1	16	Y	11.55
1	16	X	-3.33
1	17	X	-3.33
1	17	Y	11.55
1	17	Z	-0.84
1	18	Z	-0.84
1	18	Y	11.55
1	18	X	-3.33
1	19	Z	-0.84
1	19	Y	11.55
1	19	X	-3.33
1	20	Z	-0.84
1	20	Y	11.55
1	20	X	-3.33
2	13	X	-0.84
2	13	Y	11.55
2	13	Z	-3.33
2	14	X	-0.84
2	14	Y	47.31
2	14	Z	-3.33
2	15	X	-4.23
2	15	Y	-26.63
2	15	Z	-1.07
2	16	X	-4.23
2	16	Y	14.67
2	16	Z	-1.07
2	17	X	-4.23
2	17	Y	14.67
2	17	Z	-1.07
2	18	X	-4.23
2	18	Y	14.67
2	18	Z	-1.07
2	19	X	-4.23
2	19	Y	14.67
2	19	Z	-1.07
2	20	X	-4.23
2	20	Y	14.67
2	20	Z	-1.07

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 46
Job # 59219

Program: LEAP® RC-PIER® V8i (SELECTseries 5) SE Client Licenses Designed CAM
Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 Date Oct/29/2013
www.bentley.com Phone: 1-800-778-4277 Checked
File Name: Pier 12_Ped_A1.rcp Date

Line #	Bearing #	Dir	Load kips
2	21	X	-4.23
2	21	Y	14.67
2	21	Z	-1.07
2	22	X	-4.23
2	22	Y	14.67
2	22	Z	-1.07
1	21	Z	-4.23
1	21	Y	14.67
1	21	X	-1.07
1	22	Z	-4.23
1	22	Y	55.97
1	22	X	-1.07
1	1	X	0.00

Loadcase ID: WS18 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Force	X	0.00	-12.95 kips	0.50		
UDL	Z		-0.07 kif	0.00		1.00

Column loads

Col #	Type	Dir	Mag1	y1/L	Mag2	y2/L
1	UDL	Z	-0.146 kif	0.00		1.00
1	UDL	X	-0.262 kif	0.00		1.00
2	UDL	X	-0.262 kif	0.00		0.92
2	UDL	Z	-0.146 kif	0.00		0.92
3	UDL	Z	-0.146 kif	0.00		1.00
3	UDL	X	-0.262 kif	0.00		1.00
4	UDL	X	0.262 kif	0.00		0.92
4	UDL	Z	0.146 kif	0.00		0.92
5	UDL	X	0.262 kif	0.00		1.00
5	UDL	Z	0.146 kif	0.00		1.00
6	UDL	X	0.262 kif	0.00		0.92
6	UDL	Z	0.146 kif	0.00		0.92

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 47
Job # 59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Oct/29/2013
File Name:		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:		Pier 12_Ped_A1.rcp		Date

Col #	Type	Dir	Mag1	y1/L	Mag2	y2/L
1	Force	X	0.000 kips	0.00		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	12	Z	-1.14
1	12	Y	-1.59
1	12	X	-2.83
1	13	Z	-1.14
1	13	Y	0.00
1	13	X	-2.83
1	14	Z	-1.14
1	14	Y	0.00
1	14	X	-2.83
1	15	Z	-1.14
1	15	Y	0.00
1	15	X	-2.83
1	16	Z	-1.14
1	16	Y	0.00
1	16	X	-2.83
1	17	X	-2.83
1	17	Y	0.00
1	17	Z	-1.14
1	18	Z	-1.14
1	18	Y	0.00
1	18	X	-2.83
1	19	Z	-1.14
1	19	Y	0.00
1	19	X	-2.83
1	20	Z	-1.14
1	20	Y	0.00
1	20	X	-2.83
2	13	X	-1.14
2	13	Y	0.00
2	13	Z	-2.83
2	14	X	-1.14
2	14	Y	1.59
2	14	Z	-2.83
2	15	X	-3.60
2	15	Y	-1.84
2	15	Z	-1.45
2	16	X	-3.60
2	16	Y	0.00
2	16	Z	-1.45
2	17	X	-3.60
2	17	Y	0.00
2	17	Z	-1.45

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 48
Job # 59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Oct/29/2013
File Name:		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:		Pier 12_Ped_A1.rcp		Date

Line #	Bearing #	Dir	Load kips
2	18	X	-3.60
2	18	Y	0.00
2	18	Z	-1.45
2	19	X	-3.60
2	19	Y	0.00
2	19	Z	-1.45
2	20	X	-3.60
2	20	Y	0.00
2	20	Z	-1.45
2	21	X	-3.60
2	21	Y	0.00
2	21	Z	-1.45
2	22	X	-3.60
2	22	Y	0.00
2	22	Z	-1.45
1	21	Z	-3.60
1	21	Y	0.00
1	21	X	-1.45
1	22	Z	-3.60
1	22	Y	1.84
1	22	X	-1.45
1	1	X	0.00

Loadcase ID: WS19 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Force	X	0.00	-14.74 kips	0.50		
UDL	Z		-0.14 kif	0.00		1.00

Column loads

Col #	Type	Dir	Mag1	y1/L	Mag2	y2/L
1	UDL	Z	-0.228 kif	0.00		1.00
1	UDL	X	-0.235 kif	0.00		1.00
2	UDL	X	-0.235 kif	0.00		0.92

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 49
Job # 59219

Program: LEAP® RC-PIER® V8i (SELECTseries 5) SE Client Licenses Designed CAM
Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 Date Oct/29/2013
www.bentley.com Phone: 1-800-778-4277 Checked
File Name: Pier 12_Ped_A1.rcp Date

Col #	Type	Dir	Mag1	y1/L	Mag2	y2/L
2	UDL	Z	-0.228 klf	0.00		0.92
3	UDL	Z	-0.228 klf	0.00		1.00
3	UDL	X	-0.235 klf	0.00		1.00
4	UDL	X	0.235 klf	0.00		0.92
4	UDL	Z	0.228 klf	0.00		0.92
5	UDL	X	0.235 klf	0.00		1.00
5	UDL	Z	0.228 klf	0.00		1.00
6	UDL	X	0.235 klf	0.00		0.92
6	UDL	Z	0.228 klf	0.00		0.92
1	Force	X	0.000 kips	0.00		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	12	Z	-1.49
1	12	Y	-1.42
1	12	X	-2.53
1	13	Z	-1.49
1	13	Y	0.00
1	13	X	-2.53
1	14	Z	-1.49
1	14	Y	0.00
1	14	X	-2.53
1	15	Z	-1.49
1	15	Y	0.00
1	15	X	-2.53
1	16	Z	-1.49
1	16	Y	0.00
1	16	X	-2.53
1	17	X	-2.53
1	17	Y	0.00
1	17	Z	-1.49
1	18	Z	-1.49
1	18	Y	0.00
1	18	X	-2.53
1	19	Z	-1.49
1	19	Y	0.00
1	19	X	-2.53
1	20	Z	-1.49
1	20	Y	0.00
1	20	X	-2.53
2	13	X	-1.49
2	13	Y	0.00
2	13	Z	-2.53
2	14	X	-1.49
2	14	Y	1.42
2	14	Z	-2.53



Sheet # 50
Job # 59219

Program: LEAP® RC-PIER® V8i (SELECTseries 5) SE Client Licenses Designed CAM
Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 Date Oct/29/2013
www.bentley.com Phone: 1-800-778-4277 Checked
File Name: Pier 12_Ped_A1.rcp Date

Line #	Bearing #	Dir	Load kips
2	15	X	-3.21
2	15	Y	-1.64
2	15	Z	-1.89
2	16	X	-3.21
2	16	Y	0.00
2	16	Z	-1.89
2	17	X	-3.21
2	17	Y	0.00
2	17	Z	-1.89
2	18	X	-3.21
2	18	Y	0.00
2	18	Z	-1.89
2	19	X	-3.21
2	19	Y	0.00
2	19	Z	-1.89
2	20	X	-3.21
2	20	Y	0.00
2	20	Z	-1.89
2	21	X	-3.21
2	21	Y	0.00
2	21	Z	-1.89
2	22	X	-3.21
2	22	Y	0.00
2	22	Z	-1.89
1	21	Z	-3.21
1	21	Y	0.00
1	21	X	-1.89
1	22	Z	-3.21
1	22	Y	1.64
1	22	X	-1.89
1	1	X	0.00

Loadcase ID: WS20 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Force	X	0.00	-12.75 kips	0.50		
UDL	Z		-0.21 klf	0.00		1.00



Sheet # 51
Job # 59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Oct/29/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier 12_Ped_A1.rcp			Date

Column loads

Col #	Type	Dir	Mag1	y1/L	Mag2	y2/L
1	UDL	Z	-0.287 klf	0.00		1.00
1	UDL	X	-0.171 klf	0.00		1.00
2	UDL	X	-0.171 klf	0.00		0.92
2	UDL	Z	-0.287 klf	0.00		0.92
3	UDL	Z	-0.287 klf	0.00		1.00
3	UDL	X	-0.171 klf	0.00		1.00
4	UDL	X	0.171 klf	0.00		0.92
4	UDL	Z	0.287 klf	0.00		0.92
5	UDL	X	0.171 klf	0.00		1.00
5	UDL	Z	0.287 klf	0.00		1.00
6	UDL	X	0.171 klf	0.00		0.92
6	UDL	Z	0.287 klf	0.00		0.92
1	Force	X	0.000 kips	0.00		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	12	Z	-1.62
1	12	Y	-1.08
1	12	X	-1.93
1	13	Z	-1.62
1	13	Y	0.00
1	13	X	-1.93
1	14	Z	-1.62
1	14	Y	0.00
1	14	X	-1.93
1	15	Z	-1.62
1	15	Y	0.00
1	15	X	-1.93
1	16	Z	-1.62
1	16	Y	0.00
1	16	X	-1.93
1	17	X	-1.93
1	17	Y	0.00
1	17	Z	-1.62
1	18	Z	-1.62
1	18	Y	0.00
1	18	X	-1.93
1	19	Z	-1.62
1	19	Y	0.00
1	19	X	-1.93
1	20	Z	-1.62

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 52
Job # 59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Oct/29/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier 12_Ped_A1.rcp			Date

Line #	Bearing #	Dir	Load kips
1	20	Y	0.00
1	20	X	-1.93
2	13	X	-1.62
2	13	Y	0.00
2	13	Z	-1.93
2	14	X	-1.62
2	14	Y	1.08
2	14	Z	-1.93
2	15	X	-2.45
2	15	Y	-1.25
2	15	Z	-2.06
2	16	X	-2.45
2	16	Y	0.00
2	16	Z	-2.06
2	17	X	-2.45
2	17	Y	0.00
2	17	Z	-2.06
2	18	X	-2.45
2	18	Y	0.00
2	18	Z	-2.06
2	19	X	-2.45
2	19	Y	0.00
2	19	Z	-2.06
2	20	X	-2.45
2	20	Y	0.00
2	20	Z	-2.06
2	21	X	-2.45
2	21	Y	0.00
2	21	Z	-2.06
2	22	X	-2.45
2	22	Y	0.00
2	22	Z	-2.06
1	21	Z	-2.45
1	21	Y	0.00
1	21	X	-2.06
1	22	Z	-2.45
1	22	Y	1.25
1	22	X	-2.06
1	1	X	0.00

Loadcase ID: WS21 Name:

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 53
Job # 59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Oct/29/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier 12_Ped_A1.rcp			Date

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Force	X	0.00	-7.50 kips	0.50		
UDL	Z		-0.26 kf	0.00		1.00

Column loads

Col #	Type	Dir	Mag1	y1/L	Mag2	y2/L
1	UDL	Z	-0.305 kf	0.00		1.00
1	UDL	X	-0.087 kf	0.00		1.00
2	UDL	X	-0.087 kf	0.00		0.92
2	UDL	Z	-0.305 kf	0.00		0.92
3	UDL	Z	-0.305 kf	0.00		1.00
3	UDL	X	-0.087 kf	0.00		1.00
4	UDL	X	0.087 kf	0.00		0.92
4	UDL	Z	0.305 kf	0.00		0.92
5	UDL	X	0.087 kf	0.00		1.00
5	UDL	Z	0.305 kf	0.00		1.00
6	UDL	X	0.087 kf	0.00		0.92
6	UDL	Z	0.305 kf	0.00		0.92
1	Force	X	0.000 kips	0.00		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	12	Z	-1.55
1	12	Y	-0.46
1	12	X	-0.81
1	13	Z	-1.55
1	13	Y	0.00
1	13	X	-0.81
1	14	Z	-1.55
1	14	Y	0.00
1	14	X	-0.81
1	15	Z	-1.55
1	15	Y	0.00
1	15	X	-0.81
1	16	Z	-1.55
1	16	Y	0.00
1	16	X	-0.81
1	17	X	-0.81
1	17	Y	0.00



Sheet # 54
Job # 59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Oct/29/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier 12_Ped_A1.rcp			Date

Line #	Bearing #	Dir	Load kips
1	17	Z	-1.55
1	18	Z	-1.55
1	18	Y	0.00
1	18	X	-0.81
1	19	Z	-1.55
1	19	Y	0.00
1	19	X	-0.81
1	20	Z	-1.55
1	20	Y	0.00
1	20	X	-0.81
2	13	X	-1.55
2	13	Y	0.00
2	13	Z	-0.81
2	14	X	-1.55
2	14	Y	0.46
2	14	Z	-0.81
2	15	X	-1.03
2	15	Y	-0.53
2	15	Z	-1.97
2	16	X	-1.03
2	16	Y	0.00
2	16	Z	-1.97
2	17	X	-1.03
2	17	Y	0.00
2	17	Z	-1.97
2	18	X	-1.03
2	18	Y	0.00
2	18	Z	-1.97
2	19	X	-1.03
2	19	Y	0.00
2	19	Z	-1.97
2	20	X	-1.03
2	20	Y	0.00
2	20	Z	-1.97
2	21	X	-1.03
2	21	Y	0.00
2	21	Z	-1.97
2	22	X	-1.03
2	22	Y	0.00
2	22	Z	-1.97
1	21	Z	-1.03
1	21	Y	0.00
1	21	X	-1.97
1	22	Z	-1.03
1	22	Y	0.53
1	22	X	-1.97
1	1	X	0.00



Sheet # 55
Job # 59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Oct/29/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier 12_Ped_A1.rcp			Date

Loadcase ID: WS22 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Force	X	0.00	-0.42 kips	0.50		
UDL	Z		-0.28 kif	0.00		1.00

Column loads

Col #	Type	Dir	Mag1	y1/L	Mag2	y2/L
1	UDL	Z	-0.278 kif	0.00		1.00
1	UDL	X	-0.004 kif	0.00		1.00
2	UDL	X	-0.004 kif	0.00		0.92
2	UDL	Z	-0.278 kif	0.00		0.92
3	UDL	Z	-0.278 kif	0.00		1.00
3	UDL	X	-0.004 kif	0.00		1.00
4	UDL	X	0.004 kif	0.00		0.92
4	UDL	Z	0.278 kif	0.00		0.92
5	UDL	X	0.004 kif	0.00		1.00
5	UDL	Z	0.278 kif	0.00		1.00
6	UDL	X	0.004 kif	0.00		0.92
6	UDL	Z	0.278 kif	0.00		0.92
1	Force	X	0.000 kips	0.00		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	12	Z	-1.65
1	12	Y	-0.20
1	12	X	-0.36
1	13	Z	-1.65
1	13	Y	0.00
1	13	X	-0.36
1	14	Z	-1.65
1	14	Y	0.00
1	14	X	-0.36

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 56
Job # 59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Oct/29/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier 12_Ped_A1.rcp			Date

Line #	Bearing #	Dir	Load kips
1	15	Z	-1.65
1	15	Y	0.00
1	15	X	-0.36
1	16	Z	-1.65
1	16	Y	0.00
1	16	X	-0.36
1	17	X	-0.36
1	17	Y	0.00
1	17	Z	-1.65
1	18	Z	-1.65
1	18	Y	0.00
1	18	X	-0.36
1	19	Z	-1.65
1	19	Y	0.00
1	19	X	-0.36
1	20	Z	-1.65
1	20	Y	0.00
1	20	X	-0.36
2	13	X	-1.65
2	13	Y	0.00
2	13	Z	-0.36
2	14	X	-1.65
2	14	Y	0.20
2	14	Z	-0.36
2	15	X	-0.46
2	15	Y	-0.24
2	15	Z	-2.10
2	16	X	-0.46
2	16	Y	0.00
2	16	Z	-2.10
2	17	X	-0.46
2	17	Y	0.00
2	17	Z	-2.10
2	18	X	-0.46
2	18	Y	0.00
2	18	Z	-2.10
2	19	X	-0.46
2	19	Y	0.00
2	19	Z	-2.10
2	20	X	-0.46
2	20	Y	0.00
2	20	Z	-2.10
2	21	X	-0.46
2	21	Y	0.00
2	21	Z	-2.10
2	22	X	-0.46
2	22	Y	0.00
2	22	Z	-2.10
1	21	Z	-0.46

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 57
Job # 59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Oct/29/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier 12_Ped_A1.rcp			Date

Line #	Bearing #	Dir	Load kips
	21	Y	0.00
1	21	X	-2.10
1	22	Z	-0.46
1	22	Y	0.24
1	22	X	-2.10
1	1	X	0.00

Loadcase ID: WL1 Name:
Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	-0.11
1	1	Y	-0.14
1	1	Z	0.18
1	2	X	-0.11
1	2	Y	0.00
1	2	Z	0.18
1	3	X	-0.11
1	3	Y	0.00
1	3	Z	0.18
1	4	X	-0.11
1	4	Y	0.00
1	4	Z	0.18
1	5	X	-0.11
1	5	Y	0.00
1	5	Z	0.18
1	6	X	-0.11
1	6	Y	0.00
1	6	Z	0.18
1	7	X	-0.11
1	7	Y	0.00
1	7	Z	0.18
1	8	X	-0.11
1	8	Y	0.00



Sheet # 58
Job # 59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Oct/29/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier 12_Ped_A1.rcp			Date

Line #	Bearing #	Dir	Load kips
1	8	Z	0.18
1	9	X	-0.11
1	9	Y	0.14
1	9	Z	0.18
2	1	X	-0.17
2	1	Y	-0.23
2	1	Z	0.27
2	2	X	-0.17
2	2	Y	0.00
2	2	Z	0.27
2	3	X	-0.17
2	3	Y	0.00
2	3	Z	0.27
2	4	X	-0.17
2	4	Y	0.00
2	4	Z	0.27
2	5	X	-0.17
2	5	Y	0.00
2	5	Z	0.27
2	6	X	-0.17
2	6	Y	0.00
2	6	Z	0.27
2	7	X	-0.17
2	7	Y	0.00
2	7	Z	0.27
2	8	X	-0.17
2	8	Y	0.00
2	8	Z	0.27
2	9	X	-0.17
2	9	Y	0.00
2	9	Z	0.27
2	10	X	-0.17
2	10	Y	0.23
2	10	Z	0.27

Loadcase ID: WL2 Name:
Multiplier = 1.000



Sheet #	59
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Oct/29/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier 12_Ped_A1.rcp			Date

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	-0.20
1	1	Y	-0.25
1	1	Z	0.13
1	2	X	-0.20
1	2	Y	0.00
1	2	Z	0.13
1	3	X	-0.20
1	3	Y	0.00
1	3	Z	0.13
1	4	X	-0.20
1	4	Y	0.00
1	4	Z	0.13
1	5	X	-0.20
1	5	Y	0.00
1	5	Z	0.13
1	6	X	-0.20
1	6	Y	0.00
1	6	Z	0.13
1	7	X	-0.20
1	7	Y	0.00
1	7	Z	0.13
1	8	X	-0.20
1	8	Y	0.00
1	8	Z	0.13
1	9	X	-0.20
1	9	Y	0.25
1	9	Z	0.13
2	1	X	-0.30
2	1	Y	-0.41
2	1	Z	0.20
2	2	X	-0.30
2	2	Y	0.00
2	2	Z	0.20
2	3	X	-0.30
2	3	Y	0.00
2	3	Z	0.20
2	4	X	-0.30
2	4	Y	0.00
2	4	Z	0.20
2	5	X	-0.30
2	5	Y	0.00
2	5	Z	0.20
2	6	X	-0.30
2	6	Y	0.00
2	6	Z	0.20
2	7	X	-0.30

Units: US (English)

Design Code: AASHTO LRFD



Sheet #	60
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Oct/29/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier 12_Ped_A1.rcp			Date

Line #	Bearing #	Dir	Load kips
2	7	Y	0.00
2	7	Z	0.20
2	8	X	-0.30
2	8	Y	0.00
2	8	Z	0.20
2	9	X	-0.30
2	9	Y	0.00
2	9	Z	0.20
2	10	X	-0.30
2	10	Y	0.41
2	10	Z	0.20

Loadcase ID: WL3 Name:
Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	-0.34
1	1	Y	-0.42
1	1	Z	0.07
1	2	X	-0.34
1	2	Y	0.00
1	2	Z	0.07
1	3	X	-0.34
1	3	Y	0.00
1	3	Z	0.07
1	4	X	-0.34
1	4	Y	0.00
1	4	Z	0.07
1	5	X	-0.34
1	5	Y	0.00
1	5	Z	0.07
1	6	X	-0.34
1	6	Y	0.00
1	6	Z	0.07

Units: US (English)

Design Code: AASHTO LRFD



Sheet #	61
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Oct/29/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier 12_Ped_A1.rcp			Date

Line #	Bearing #	Dir	Load kips
1	7	X	-0.34
1	7	Y	0.00
1	7	Z	0.07
1	8	X	-0.34
1	8	Y	0.00
1	8	Z	0.07
1	9	X	-0.34
1	9	Y	0.42
1	9	Z	0.07
2	1	X	-0.51
2	1	Y	-0.70
2	1	Z	0.11
2	2	X	-0.51
2	2	Y	0.00
2	2	Z	0.11
2	3	X	-0.51
2	3	Y	0.00
2	3	Z	0.11
2	4	X	-0.51
2	4	Y	0.00
2	4	Z	0.11
2	5	X	-0.51
2	5	Y	0.00
2	5	Z	0.11
2	6	X	-0.51
2	6	Y	0.00
2	6	Z	0.11
2	7	X	-0.51
2	7	Y	0.00
2	7	Z	0.11
2	8	X	-0.51
2	8	Y	0.00
2	8	Z	0.11
2	9	X	-0.51
2	9	Y	0.00
2	9	Z	0.11
2	10	X	-0.51
2	10	Y	0.70
2	10	Z	0.11

Loadcase ID: WL4 Name:



Sheet #	62
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Oct/29/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier 12_Ped_A1.rcp			Date

Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	-0.40
1	1	Y	-0.50
1	1	Z	0.02
1	2	X	-0.40
1	2	Y	0.00
1	2	Z	0.02
1	3	X	-0.40
1	3	Y	0.00
1	3	Z	0.02
1	4	X	-0.40
1	4	Y	0.00
1	4	Z	0.02
1	5	X	-0.40
1	5	Y	0.00
1	5	Z	0.02
1	6	X	-0.40
1	6	Y	0.00
1	6	Z	0.02
1	7	X	-0.40
1	7	Y	0.00
1	7	Z	0.02
1	8	X	-0.40
1	8	Y	0.00
1	8	Z	0.02
1	9	X	-0.40
1	9	Y	0.50
1	9	Z	0.02
2	1	X	-0.61
2	1	Y	-0.83
2	1	Z	0.02
2	2	X	-0.61
2	2	Y	0.00
2	2	Z	0.02
2	3	X	-0.61
2	3	Y	0.00
2	3	Z	0.02
2	4	X	-0.61
2	4	Y	0.00
2	4	Z	0.02
2	5	X	-0.61
2	5	Y	0.00



Sheet #	63
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Oct/29/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier 12_Ped_A1.rcp			Date

Line #	Bearing #	Dir	Load kips
2	5	Z	0.02
2	6	X	-0.61
2	6	Y	0.00
2	6	Z	0.02
2	7	X	-0.61
2	7	Y	0.00
2	7	Z	0.02
2	8	X	-0.61
2	8	Y	0.00
2	8	Z	0.02
2	9	X	-0.61
2	9	Y	0.00
2	9	Z	0.02
2	10	X	-0.61
2	10	Y	0.83
2	10	Z	0.02

Loadcase ID: WL5 Name:
Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	-0.42
1	1	Y	-0.52
1	1	Z	-0.05
1	2	X	-0.42
1	2	Y	0.00
1	2	Z	-0.05
1	3	X	-0.42
1	3	Y	0.00
1	3	Z	-0.05
1	4	X	-0.42
1	4	Y	0.00
1	4	Z	-0.05
1	5	X	-0.42



Sheet #	64
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Oct/29/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier 12_Ped_A1.rcp			Date

Line #	Bearing #	Dir	Load kips
1	5	Y	0.00
1	5	Z	-0.05
1	6	X	-0.42
1	6	Y	0.00
1	6	Z	-0.05
1	7	X	-0.42
1	7	Y	0.00
1	7	Z	-0.05
1	8	X	-0.42
1	8	Y	0.00
1	8	Z	-0.05
1	9	X	-0.42
1	9	Y	0.52
1	9	Z	-0.05
2	1	X	-0.63
2	1	Y	-0.86
2	1	Z	-0.07
2	2	X	-0.63
2	2	Y	0.00
2	2	Z	-0.07
2	3	X	-0.63
2	3	Y	0.00
2	3	Z	-0.07
2	4	X	-0.63
2	4	Y	0.00
2	4	Z	-0.07
2	5	X	-0.63
2	5	Y	0.00
2	5	Z	-0.07
2	6	X	-0.63
2	6	Y	0.00
2	6	Z	-0.07
2	7	X	-0.63
2	7	Y	0.00
2	7	Z	-0.07
2	8	X	-0.63
2	8	Y	0.00
2	8	Z	-0.07
2	9	X	-0.63
2	9	Y	0.00
2	9	Z	-0.07
2	10	X	-0.63
2	10	Y	0.86
2	10	Z	-0.07



Sheet #	65			
Job #	59219			
Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Oct/29/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier 12_Ped_A1.rcp		Date	

Loadcase ID: WL6 Name:

Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	-0.46
1	1	Y	-0.57
1	1	Z	-0.12
1	2	X	-0.46
1	2	Y	0.00
1	2	Z	-0.12
1	3	X	-0.46
1	3	Y	0.00
1	3	Z	-0.12
1	4	X	-0.46
1	4	Y	0.00
1	4	Z	-0.12
1	5	X	-0.46
1	5	Y	0.00
1	5	Z	-0.12
1	6	X	-0.46
1	6	Y	0.00
1	6	Z	-0.12
1	7	X	-0.46
1	7	Y	0.00
1	7	Z	-0.12
1	8	X	-0.46
1	8	Y	0.00
1	8	Z	-0.12
1	9	X	-0.46
1	9	Y	0.57
1	9	Z	-0.12
2	1	X	-0.69
2	1	Y	-0.94
2	1	Z	-0.17
2	2	X	-0.69
2	2	Y	0.00
2	2	Z	-0.17
2	3	X	-0.69
2	3	Y	0.00
2	3	Z	-0.17

Units: US (English)

Design Code: AASHTO LRFD



Sheet #	66			
Job #	59219			
Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Oct/29/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier 12_Ped_A1.rcp		Date	

Line #	Bearing #	Dir	Load kips
2	4	X	-0.69
2	4	Y	0.00
2	4	Z	-0.17
2	5	X	-0.69
2	5	Y	0.00
2	5	Z	-0.17
2	6	X	-0.69
2	6	Y	0.00
2	6	Z	-0.17
2	7	X	-0.69
2	7	Y	0.00
2	7	Z	-0.17
2	8	X	-0.69
2	8	Y	0.00
2	8	Z	-0.17
2	9	X	-0.69
2	9	Y	0.00
2	9	Z	-0.17
2	10	X	-0.69
2	10	Y	0.94
2	10	Z	-0.17

Loadcase ID: WL7 Name:

Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	-0.39
1	1	Y	-0.48
1	1	Z	-0.16
1	2	X	-0.39
1	2	Y	0.00
1	2	Z	-0.16
1	3	X	-0.39
1	3	Y	0.00

Units: US (English)

Design Code: AASHTO LRFD



Sheet #	67
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Oct/29/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier 12_Ped_A1.rcp			Date

Line #	Bearing #	Dir	Load kips
1	3	Z	-0.16
1	4	X	-0.39
1	4	Y	0.00
1	4	Z	-0.16
1	5	X	-0.39
1	5	Y	0.00
1	5	Z	-0.16
1	6	X	-0.39
1	6	Y	0.00
1	6	Z	-0.16
1	7	X	-0.39
1	7	Y	0.00
1	7	Z	-0.16
1	8	X	-0.39
1	8	Y	0.00
1	8	Z	-0.16
1	9	X	-0.39
1	9	Y	0.48
1	9	Z	-0.16
2	1	X	-0.59
2	1	Y	-0.80
2	1	Z	-0.24
2	2	X	-0.59
2	2	Y	0.00
2	2	Z	-0.24
2	3	X	-0.59
2	3	Y	0.00
2	3	Z	-0.24
2	4	X	-0.59
2	4	Y	0.00
2	4	Z	-0.24
2	5	X	-0.59
2	5	Y	0.00
2	5	Z	-0.24
2	6	X	-0.59
2	6	Y	0.00
2	6	Z	-0.24
2	7	X	-0.59
2	7	Y	0.00
2	7	Z	-0.24
2	8	X	-0.59
2	8	Y	0.00
2	8	Z	-0.24
2	9	X	-0.59
2	9	Y	0.00
2	9	Z	-0.24
2	10	X	-0.59
2	10	Y	0.80
2	10	Z	-0.24

Units: US (English)

Design Code: AASHTO LRFD



Sheet #	68
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Oct/29/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier 12_Ped_A1.rcp			Date

Loadcase ID: WL8 Name:
Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	-0.35
1	1	Y	-0.43
1	1	Z	-0.20
1	2	X	-0.35
1	2	Y	0.00
1	2	Z	-0.20
1	3	X	-0.35
1	3	Y	0.00
1	3	Z	-0.20
1	4	X	-0.35
1	4	Y	0.00
1	4	Z	-0.20
1	5	X	-0.35
1	5	Y	0.00
1	5	Z	-0.20
1	6	X	-0.35
1	6	Y	0.00
1	6	Z	-0.20
1	7	X	-0.35
1	7	Y	0.00
1	7	Z	-0.20
1	8	X	-0.35
1	8	Y	0.00
1	8	Z	-0.20
1	9	X	-0.35
1	9	Y	0.43
1	9	Z	-0.20
2	1	X	-0.52
2	1	Y	-0.72
2	1	Z	-0.31
2	2	X	-0.52
2	2	Y	0.00

Units: US (English)

Design Code: AASHTO LRFD



Sheet #	69
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Oct/29/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier 12_Ped_A1.rcp			Date

Line #	Bearing #	Dir	Load kips
2	2	Z	-0.31
2	3	X	-0.52
2	3	Y	0.00
2	3	Z	-0.31
2	4	X	-0.52
2	4	Y	0.00
2	4	Z	-0.31
2	5	X	-0.52
2	5	Y	0.00
2	5	Z	-0.31
2	6	X	-0.52
2	6	Y	0.00
2	6	Z	-0.31
2	7	X	-0.52
2	7	Y	0.00
2	7	Z	-0.31
2	8	X	-0.52
2	8	Y	0.00
2	8	Z	-0.31
2	9	X	-0.52
2	9	Y	0.00
2	9	Z	-0.31
2	10	X	-0.52
2	10	Y	0.72
2	10	Z	-0.31

Loadcase ID: WL9 Name:
Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	-0.26
1	1	Y	-0.33
1	1	Z	-0.22
1	2	X	-0.26

Units: US (English)

Design Code: AASHTO LRFD



Sheet #	70
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Oct/29/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier 12_Ped_A1.rcp			Date

Line #	Bearing #	Dir	Load kips
1	2	Y	0.00
1	2	Z	-0.22
1	3	X	-0.26
1	3	Y	0.00
1	3	Z	-0.22
1	4	X	-0.26
1	4	Y	0.00
1	4	Z	-0.22
1	5	X	-0.26
1	5	Y	0.00
1	5	Z	-0.22
1	6	X	-0.26
1	6	Y	0.00
1	6	Z	-0.22
1	7	X	-0.26
1	7	Y	0.00
1	7	Z	-0.22
1	8	X	-0.26
1	8	Y	0.00
1	8	Z	-0.22
1	9	X	-0.26
1	9	Y	0.33
1	9	Z	-0.22
2	1	X	-0.40
2	1	Y	-0.55
2	1	Z	-0.34
2	2	X	-0.40
2	2	Y	0.00
2	2	Z	-0.34
2	3	X	-0.40
2	3	Y	0.00
2	3	Z	-0.34
2	4	X	-0.40
2	4	Y	0.00
2	4	Z	-0.34
2	5	X	-0.40
2	5	Y	0.00
2	5	Z	-0.34
2	6	X	-0.40
2	6	Y	0.00
2	6	Z	-0.34
2	7	X	-0.40
2	7	Y	0.00
2	7	Z	-0.34
2	8	X	-0.40
2	8	Y	0.00
2	8	Z	-0.34
2	9	X	-0.40
2	9	Y	0.00

Units: US (English)

Design Code: AASHTO LRFD



Sheet #	71
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Oct/29/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier 12_Ped_A1.rcp			Date

Line #	Bearing #	Dir	Load kips
	9	Z	-0.34
2	10	X	-0.40
2	10	Y	0.55
2	10	Z	-0.34

Loadcase ID: WL10 Name:
Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	-0.11
1	1	Y	-0.14
1	1	Z	-0.21
1	2	X	-0.11
1	2	Y	0.00
1	2	Z	-0.21
1	3	X	-0.11
1	3	Y	0.00
1	3	Z	-0.21
1	4	X	-0.11
1	4	Y	0.00
1	4	Z	-0.21
1	5	X	-0.11
1	5	Y	0.00
1	5	Z	-0.21
1	6	X	-0.11
1	6	Y	0.00
1	6	Z	-0.21
1	7	X	-0.11
1	7	Y	0.00
1	7	Z	-0.21
1	8	X	-0.11
1	8	Y	0.00
1	8	Z	-0.21
1	9	X	-0.11



Sheet #	72
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Oct/29/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier 12_Ped_A1.rcp			Date

Line #	Bearing #	Dir	Load kips
1	9	Y	0.14
1	9	Z	-0.21
2	1	X	-0.17
2	1	Y	-0.23
2	1	Z	-0.32
2	2	X	-0.17
2	2	Y	0.00
2	2	Z	-0.32
2	3	X	-0.17
2	3	Y	0.00
2	3	Z	-0.32
2	4	X	-0.17
2	4	Y	0.00
2	4	Z	-0.32
2	5	X	-0.17
2	5	Y	0.00
2	5	Z	-0.32
2	6	X	-0.17
2	6	Y	0.00
2	6	Z	-0.32
2	7	X	-0.17
2	7	Y	0.00
2	7	Z	-0.32
2	8	X	-0.17
2	8	Y	0.00
2	8	Z	-0.32
2	9	X	-0.17
2	9	Y	0.00
2	9	Z	-0.32
2	10	X	-0.17
2	10	Y	0.23
2	10	Z	-0.32

Loadcase ID: WL11 Name:
Multiplier = 1.000



Sheet #	73
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Oct/29/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier 12_Ped_A1.rcp			Date

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	-0.02
1	1	Y	-0.02
1	1	Z	-0.21
1	2	X	-0.02
1	2	Y	0.00
1	2	Z	-0.21
1	3	X	-0.02
1	3	Y	0.00
1	3	Z	-0.21
1	4	X	-0.02
1	4	Y	0.00
1	4	Z	-0.21
1	5	X	-0.02
1	5	Y	0.00
1	5	Z	-0.21
1	6	X	-0.02
1	6	Y	0.00
1	6	Z	-0.21
1	7	X	-0.02
1	7	Y	0.00
1	7	Z	-0.21
1	8	X	-0.02
1	8	Y	0.00
1	8	Z	-0.21
1	9	X	-0.02
1	9	Y	0.02
1	9	Z	-0.21
2	1	X	-0.02
2	1	Y	-0.03
2	1	Z	-0.31
2	2	X	-0.02
2	2	Y	0.00
2	2	Z	-0.31
2	3	X	-0.02
2	3	Y	0.00
2	3	Z	-0.31
2	4	X	-0.02
2	4	Y	0.00
2	4	Z	-0.31
2	5	X	-0.02
2	5	Y	0.00
2	5	Z	-0.31
2	6	X	-0.02
2	6	Y	0.00
2	6	Z	-0.31
2	7	X	-0.02
2	7	Y	0.00
2	7	Z	-0.31



Sheet #	74
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Oct/29/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier 12_Ped_A1.rcp			Date

Line #	Bearing #	Dir	Load kips
2	8	X	-0.02
2	8	Y	0.00
2	8	Z	-0.31
2	9	X	-0.02
2	9	Y	0.00
2	9	Z	-0.31
2	10	X	-0.02
2	10	Y	0.03
2	10	Z	-0.31

Loadcase ID: WL12 Name:
Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	12	Z	0.21
1	12	Y	-0.20
1	12	X	-0.13
1	13	Z	0.21
1	13	Y	0.00
1	13	X	-0.13
1	14	Z	0.21
1	14	Y	0.00
1	14	X	-0.13
1	15	Z	0.21
1	15	Y	0.00
1	15	X	-0.13
1	16	Z	0.21
1	16	Y	0.00
1	16	X	-0.13
1	17	X	-0.13
1	17	Y	0.00
1	17	Z	0.21
1	18	Z	0.21
1	18	Y	0.00



Sheet #	75
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Oct/29/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier 12_Ped_A1.rcp	Checked		
		Date		

Line #	Bearing #	Dir	Load kips
1	18	X	-0.13
1	19	Z	0.21
1	19	Y	0.00
1	19	X	-0.13
1	20	Z	0.21
1	20	Y	0.00
1	20	X	-0.13
2	13	X	0.21
2	13	Y	0.00
2	13	Z	-0.13
2	14	X	0.21
2	14	Y	0.20
2	14	Z	-0.13
2	15	X	-0.17
2	15	Y	-0.23
2	15	Z	0.27
2	16	X	-0.17
2	16	Y	0.00
2	16	Z	0.27
2	17	X	-0.17
2	17	Y	0.00
2	17	Z	0.27
2	18	X	-0.17
2	18	Y	0.00
2	18	Z	0.27
2	19	X	-0.17
2	19	Y	0.00
2	19	Z	0.27
2	20	X	-0.17
2	20	Y	0.00
2	20	Z	0.27
2	21	X	-0.17
2	21	Y	0.00
2	21	Z	0.27
2	22	X	-0.17
2	22	Y	0.00
2	22	Z	0.27
1	21	Z	-0.17
1	21	Y	0.00
1	21	X	0.27
1	22	Z	-0.17
1	22	Y	0.23
1	22	X	0.27

Units: US (English)

Design Code: AASHTO LRFD



Sheet #	76
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Oct/29/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier 12_Ped_A1.rcp	Checked		
		Date		

Loadcase ID: WL13 Name:
Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	12	Z	0.16
1	12	Y	-0.36
1	12	X	-0.24
1	13	Z	0.16
1	13	Y	0.00
1	13	X	-0.24
1	14	Z	0.16
1	14	Y	0.00
1	14	X	-0.24
1	15	Z	0.16
1	15	Y	0.00
1	15	X	-0.24
1	16	Z	0.16
1	16	Y	0.00
1	16	X	-0.24
1	17	X	-0.24
1	17	Y	0.00
1	17	Z	0.16
1	18	Z	0.16
1	18	Y	0.00
1	18	X	-0.24
1	19	Z	0.16
1	19	Y	0.00
1	19	X	-0.24
1	20	Z	0.16
1	20	Y	0.00
1	20	X	-0.24
2	13	X	0.16
2	13	Y	0.00
2	13	Z	-0.24
2	14	X	0.16
2	14	Y	0.36
2	14	Z	-0.24
2	15	X	-0.30
2	15	Y	-0.41
2	15	Z	0.20
2	16	X	-0.30

Units: US (English)

Design Code: AASHTO LRFD



Sheet #	77
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Oct/29/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier 12_Ped_A1.rcp	Checked		
		Date		

Line #	Bearing #	Dir	Load kips
2	16	Y	0.00
2	16	Z	0.20
2	17	X	-0.30
2	17	Y	0.00
2	17	Z	0.20
2	18	X	-0.30
2	18	Y	0.00
2	18	Z	0.20
2	19	X	-0.30
2	19	Y	0.00
2	19	Z	0.20
2	20	X	-0.30
2	20	Y	0.00
2	20	Z	0.20
2	21	X	-0.30
2	21	Y	0.00
2	21	Z	0.20
2	22	X	-0.30
2	22	Y	0.00
2	22	Z	0.20
1	21	Z	-0.30
1	21	Y	0.00
1	21	X	0.20
1	22	Z	-0.30
1	22	Y	0.41
1	22	X	0.20

Loadcase ID: WL14 Name:

Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	12	Z	0.08
1	12	Y	-0.61
1	12	X	-0.40

Units: US (English)

Design Code: AASHTO LRFD



Sheet #	78
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Oct/29/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier 12_Ped_A1.rcp	Checked		
		Date		

Line #	Bearing #	Dir	Load kips
1	13	Z	0.08
1	13	Y	0.00
1	13	X	-0.40
1	14	Z	0.08
1	14	Y	0.00
1	14	X	-0.40
1	15	Z	0.08
1	15	Y	0.00
1	15	X	-0.40
1	16	Z	0.08
1	16	Y	0.00
1	16	X	-0.40
1	17	X	-0.40
1	17	Y	0.00
1	17	Z	0.08
1	18	Z	0.08
1	18	Y	0.00
1	18	X	-0.40
1	19	Z	0.08
1	19	Y	0.00
1	19	X	-0.40
1	20	Z	0.08
1	20	Y	0.00
1	20	X	-0.40
2	13	X	0.08
2	13	Y	0.00
2	13	Z	-0.40
2	14	X	0.08
2	14	Y	0.61
2	14	Z	-0.40
2	15	X	-0.51
2	15	Y	-0.70
2	15	Z	0.11
2	16	X	-0.51
2	16	Y	0.00
2	16	Z	0.11
2	17	X	-0.51
2	17	Y	0.00
2	17	Z	0.11
2	18	X	-0.51
2	18	Y	0.00
2	18	Z	0.11
2	19	X	-0.51
2	19	Y	0.00
2	19	Z	0.11
2	20	X	-0.51
2	20	Y	0.00
2	20	Z	0.11
2	21	X	-0.51

Units: US (English)

Design Code: AASHTO LRFD



Sheet #	79
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Oct/29/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier 12_Ped_A1.rcp			Date

Line #	Bearing #	Dir	Load kips
	21	Y	0.00
2	21	Z	0.11
	22	X	-0.51
2	22	Y	0.00
2	22	Z	0.11
1	21	Z	-0.51
1	21	Y	0.00
1	21	X	0.11
1	22	Z	-0.51
1	22	Y	0.70
1	22	X	0.11

Loadcase ID: WL15 Name:
Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	12	Z	0.02
1	12	Y	-0.72
1	12	X	-0.48
1	13	Z	0.02
1	13	Y	0.00
1	13	X	-0.48
1	14	Z	0.02
1	14	Y	0.00
1	14	X	-0.48
1	15	Z	0.02
1	15	Y	0.00
1	15	X	-0.48
1	16	Z	0.02
1	16	Y	0.00
1	16	X	-0.48
1	17	X	-0.48
1	17	Y	0.00
1	17	Z	0.02



Sheet #	80
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Oct/29/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier 12_Ped_A1.rcp			Date

Line #	Bearing #	Dir	Load kips
1	18	Z	0.02
1	18	Y	0.00
1	18	X	-0.48
1	19	Z	0.02
1	19	Y	0.00
1	19	X	-0.48
1	20	Z	0.02
1	20	Y	0.00
1	20	X	-0.48
2	13	X	0.02
2	13	Y	0.00
2	13	Z	-0.48
2	14	X	0.02
2	14	Y	0.72
2	14	Z	-0.48
2	15	X	-0.61
2	15	Y	-0.83
2	15	Z	0.02
2	16	X	-0.61
2	16	Y	0.00
2	16	Z	0.02
2	17	X	-0.61
2	17	Y	0.00
2	17	Z	0.02
2	18	X	-0.61
2	18	Y	0.00
2	18	Z	0.02
2	19	X	-0.61
2	19	Y	0.00
2	19	Z	0.02
2	20	X	-0.61
2	20	Y	0.00
2	20	Z	0.02
2	21	X	-0.61
2	21	Y	0.00
2	21	Z	0.02
2	22	X	-0.61
2	22	Y	0.00
2	22	Z	0.02
1	21	Z	-0.61
1	21	Y	0.00
1	21	X	0.02
1	22	Z	-0.61
1	22	Y	0.83
1	22	X	0.02



Sheet #	81				
Job #	59219				
Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM	
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Oct/29/2013	
		www.bentley.com	Phone: 1-800-778-4277	Checked	
File Name:	Pier 12_Ped_A1.rcp		Date		

Loadcase ID: WL16 Name:

Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	12	Z	-0.06
1	12	Y	-0.74
1	12	X	-0.49
1	13	Z	-0.06
1	13	Y	0.00
1	13	X	-0.49
1	14	Z	-0.06
1	14	Y	0.00
1	14	X	-0.49
1	15	Z	-0.06
1	15	Y	0.00
1	15	X	-0.49
1	16	Z	-0.06
1	16	Y	0.00
1	16	X	-0.49
1	17	X	-0.49
1	17	Y	0.00
1	17	Z	-0.06
1	18	Z	-0.06
1	18	Y	0.00
1	18	X	-0.49
1	19	Z	-0.06
1	19	Y	0.00
1	19	X	-0.49
1	20	Z	-0.06
1	20	Y	0.00
1	20	X	-0.49
2	13	X	-0.06
2	13	Y	0.00
2	13	Z	-0.49
2	14	X	-0.06
2	14	Y	0.74
2	14	Z	-0.49
2	15	X	-0.63
2	15	Y	-0.86



Sheet #	82				
Job #	59219				
Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM	
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Oct/29/2013	
		www.bentley.com	Phone: 1-800-778-4277	Checked	
File Name:	Pier 12_Ped_A1.rcp		Date		

Line #	Bearing #	Dir	Load kips
2	15	Z	-0.07
2	16	X	-0.63
2	16	Y	0.00
2	16	Z	-0.07
2	17	X	-0.63
2	17	Y	0.00
2	17	Z	-0.07
2	18	X	-0.63
2	18	Y	0.00
2	18	Z	-0.07
2	19	X	-0.63
2	19	Y	0.00
2	19	Z	-0.07
2	20	X	-0.63
2	20	Y	0.00
2	20	Z	-0.07
2	21	X	-0.63
2	21	Y	0.00
2	21	Z	-0.07
2	22	X	-0.63
2	22	Y	0.00
2	22	Z	-0.07
1	21	Z	-0.63
1	21	Y	0.00
1	21	X	-0.07
1	22	Z	-0.63
1	22	Y	0.86
1	22	X	-0.07

Loadcase ID: WL17 Name:

Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	12	Z	-0.14



Sheet #	83
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Oct/29/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier 12_Ped_A1.rcp			Date

Line #	Bearing #	Dir	Load kips
1	12	Y	-0.82
1	12	X	-0.54
1	13	Z	-0.14
1	13	Y	0.00
1	13	X	-0.54
1	14	Z	-0.14
1	14	Y	0.00
1	14	X	-0.54
1	15	Z	-0.14
1	15	Y	0.00
1	15	X	-0.54
1	16	Z	-0.14
1	16	Y	0.00
1	16	X	-0.54
1	17	X	-0.54
1	17	Y	0.00
1	17	Z	-0.14
1	18	Z	-0.14
1	18	Y	0.00
1	18	X	-0.54
1	19	Z	-0.14
1	19	Y	0.00
1	19	X	-0.54
1	20	Z	-0.14
1	20	Y	0.00
1	20	X	-0.54
2	13	X	-0.14
2	13	Y	0.00
2	13	Z	-0.54
2	14	X	-0.14
2	14	Y	0.82
2	14	Z	-0.54
2	15	X	-0.69
2	15	Y	-0.94
2	15	Z	-0.17
2	16	X	-0.69
2	16	Y	0.00
2	16	Z	-0.17
2	17	X	-0.69
2	17	Y	0.00
2	17	Z	-0.17
2	18	X	-0.69
2	18	Y	0.00
2	18	Z	-0.17
2	19	X	-0.69
2	19	Y	0.00
2	19	Z	-0.17
2	20	X	-0.69
2	20	Y	0.00

Units: US (English)

Design Code: AASHTO LRFD



Sheet #	84
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Oct/29/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier 12_Ped_A1.rcp			Date

Line #	Bearing #	Dir	Load kips
	20	Z	-0.17
2	21	X	-0.69
2	21	Y	0.00
2	21	Z	-0.17
2	22	X	-0.69
2	22	Y	0.00
2	22	Z	-0.17
1	21	Z	-0.69
1	21	Y	0.00
1	21	X	-0.17
1	22	Z	-0.69
1	22	Y	0.94
1	22	X	-0.17

Loadcase ID: WL18 Name:

Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	12	Z	-0.19
1	12	Y	-0.69
1	12	X	-0.46
1	13	Z	-0.19
1	13	Y	0.00
1	13	X	-0.46
1	14	Z	-0.19
1	14	Y	0.00
1	14	X	-0.46
1	15	Z	-0.19
1	15	Y	0.00
1	15	X	-0.46
1	16	Z	-0.19
1	16	Y	0.00
1	16	X	-0.46
1	17	X	-0.46

Units: US (English)

Design Code: AASHTO LRFD



Sheet #	85
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Oct/29/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier 12_Ped_A1.rcp			Date

Line #	Bearing #	Dir	Load kips
1	17	Y	0.00
1	17	Z	-0.19
1	18	Z	-0.19
1	18	Y	0.00
1	18	X	-0.46
1	19	Z	-0.19
1	19	Y	0.00
1	19	X	-0.46
1	20	Z	-0.19
1	20	Y	0.00
1	20	X	-0.46
2	13	X	-0.19
2	13	Y	0.00
2	13	Z	-0.46
2	14	X	-0.19
2	14	Y	0.69
2	14	Z	-0.46
2	15	X	-0.59
2	15	Y	-0.80
2	15	Z	-0.24
2	16	X	-0.59
2	16	Y	0.00
2	16	Z	-0.24
2	17	X	-0.59
2	17	Y	0.00
2	17	Z	-0.24
2	18	X	-0.59
2	18	Y	0.00
2	18	Z	-0.24
2	19	X	-0.59
2	19	Y	0.00
2	19	Z	-0.24
2	20	X	-0.59
2	20	Y	0.00
2	20	Z	-0.24
2	21	X	-0.59
2	21	Y	0.00
2	21	Z	-0.24
2	22	X	-0.59
2	22	Y	0.00
2	22	Z	-0.24
1	21	Z	-0.59
1	21	Y	0.00
1	21	X	-0.24
1	22	Z	-0.59
1	22	Y	0.80
1	22	X	-0.24

Units: US (English)

Design Code: AASHTO LRFD



Sheet #	86
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Oct/29/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier 12_Ped_A1.rcp			Date

Loadcase ID: WL19 Name:

Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	12	Z	-0.24
1	12	Y	-0.62
1	12	X	-0.41
1	13	Z	-0.24
1	13	Y	0.00
1	13	X	-0.41
1	14	Z	-0.24
1	14	Y	0.00
1	14	X	-0.41
1	15	Z	-0.24
1	15	Y	0.00
1	15	X	-0.41
1	16	Z	-0.24
1	16	Y	0.00
1	16	X	-0.41
1	17	X	-0.41
1	17	Y	0.00
1	17	Z	-0.24
1	18	Z	-0.24
1	18	Y	0.00
1	18	X	-0.41
1	19	Z	-0.24
1	19	Y	0.00
1	19	X	-0.41
1	20	Z	-0.24
1	20	Y	0.00
1	20	X	-0.41
2	13	X	-0.24
2	13	Y	0.00
2	13	Z	-0.41
2	14	X	-0.24
2	14	Y	0.62
2	14	Z	-0.41

Units: US (English)

Design Code: AASHTO LRFD



Sheet #	87
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Oct/29/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier 12_Ped_A1.rcp			Date

Line #	Bearing #	Dir	Load kips
2	15	X	-0.52
2	15	Y	-0.72
2	15	Z	-0.31
2	16	X	-0.52
2	16	Y	0.00
2	16	Z	-0.31
2	17	X	-0.52
2	17	Y	0.00
2	17	Z	-0.31
2	18	X	-0.52
2	18	Y	0.00
2	18	Z	-0.31
2	19	X	-0.52
2	19	Y	0.00
2	19	Z	-0.31
2	20	X	-0.52
2	20	Y	0.00
2	20	Z	-0.31
2	21	X	-0.52
2	21	Y	0.00
2	21	Z	-0.31
2	22	X	-0.52
2	22	Y	0.00
2	22	Z	-0.31
1	21	Z	-0.52
1	21	Y	0.00
1	21	X	-0.31
1	22	Z	-0.52
1	22	Y	0.72
1	22	X	-0.31

Loadcase ID: WL20 Name:
Multiplier = 1.000

Bearing loads



Sheet #	88
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Oct/29/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier 12_Ped_A1.rcp			Date

Line #	Bearing #	Dir	Load kips
1	12	Z	-0.26
1	12	Y	-0.47
1	12	X	-0.31
1	13	Z	-0.26
1	13	Y	0.00
1	13	X	-0.31
1	14	Z	-0.26
1	14	Y	0.00
1	14	X	-0.31
1	15	Z	-0.26
1	15	Y	0.00
1	15	X	-0.31
1	16	Z	-0.26
1	16	Y	0.00
1	16	X	-0.31
1	17	X	-0.31
1	17	Y	0.00
1	17	Z	-0.26
1	18	Z	-0.26
1	18	Y	0.00
1	18	X	-0.31
1	19	Z	-0.26
1	19	Y	0.00
1	19	X	-0.31
1	20	Z	-0.26
1	20	Y	0.00
1	20	X	-0.31
2	13	X	-0.26
2	13	Y	0.00
2	13	Z	-0.31
2	14	X	-0.26
2	14	Y	0.47
2	14	Z	-0.31
2	15	X	-0.40
2	15	Y	-0.55
2	15	Z	-0.34
2	16	X	-0.40
2	16	Y	0.00
2	16	Z	-0.34
2	17	X	-0.40
2	17	Y	0.00
2	17	Z	-0.34
2	18	X	-0.40
2	18	Y	0.00
2	18	Z	-0.34
2	19	X	-0.40
2	19	Y	0.00
2	19	Z	-0.34
2	20	X	-0.40



Sheet #	89
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Oct/29/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier 12_Ped_A1.rcp			Date

Line #	Bearing #	Dir	Load kips
	20	Y	0.00
2	20	Z	-0.34
2	21	X	-0.40
2	21	Y	0.00
2	21	Z	-0.34
2	22	X	-0.40
2	22	Y	0.00
2	22	Z	-0.34
1	21	Z	-0.40
1	21	Y	0.00
1	21	X	-0.34
1	22	Z	-0.40
1	22	Y	0.55
1	22	X	-0.34

Loadcase ID: WL21 Name:
Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	12	Z	-0.25
1	12	Y	-0.20
1	12	X	-0.13
1	13	Z	-0.25
1	13	Y	0.00
1	13	X	-0.13
1	14	Z	-0.25
1	14	Y	0.00
1	14	X	-0.13
1	15	Z	-0.25
1	15	Y	0.00
1	15	X	-0.13
1	16	Z	-0.25
1	16	Y	0.00
1	16	X	-0.13



Sheet #	90
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Oct/29/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier 12_Ped_A1.rcp			Date

Line #	Bearing #	Dir	Load kips
1	17	X	-0.13
1	17	Y	0.00
1	17	Z	-0.25
1	18	Z	-0.25
1	18	Y	0.00
1	18	X	-0.13
1	19	Z	-0.25
1	19	Y	0.00
1	19	X	-0.13
1	20	Z	-0.25
1	20	Y	0.00
1	20	X	-0.13
2	13	X	-0.25
2	13	Y	0.00
2	13	Z	-0.13
2	14	X	-0.25
2	14	Y	0.20
2	14	Z	-0.13
2	15	X	-0.17
2	15	Y	-0.23
2	15	Z	-0.32
2	16	X	-0.17
2	16	Y	0.00
2	16	Z	-0.32
2	17	X	-0.17
2	17	Y	0.00
2	17	Z	-0.32
2	18	X	-0.17
2	18	Y	0.00
2	18	Z	-0.32
2	19	X	-0.17
2	19	Y	0.00
2	19	Z	-0.32
2	20	X	-0.17
2	20	Y	0.00
2	20	Z	-0.32
2	21	X	-0.17
2	21	Y	0.00
2	21	Z	-0.32
2	22	X	-0.17
2	22	Y	0.00
2	22	Z	-0.32
1	21	Z	-0.17
1	21	Y	0.00
1	21	X	-0.32
1	22	Z	-0.17
1	22	Y	0.23
1	22	X	-0.32



Sheet #	91
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Oct/29/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier 12_Ped_A1.rcp			Date

Loadcase ID: WL22 Name:
Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	12	Z	-0.25
1	12	Y	-0.03
1	12	X	-0.02
1	13	Z	-0.25
1	13	Y	0.00
1	13	X	-0.02
1	14	Z	-0.25
1	14	Y	0.00
1	14	X	-0.02
1	15	Z	-0.25
1	15	Y	0.00
1	15	X	-0.02
1	16	Z	-0.25
1	16	Y	0.00
1	16	X	-0.02
1	17	X	-0.02
1	17	Y	0.00
1	17	Z	-0.25
1	18	Z	-0.25
1	18	Y	0.00
1	18	X	-0.02
1	19	Z	-0.25
1	19	Y	0.00
1	19	X	-0.02
1	20	Z	-0.25
1	20	Y	0.00
1	20	X	-0.02
2	13	X	-0.25
2	13	Y	0.00
2	13	Z	-0.02
2	14	X	-0.25
2	14	Y	0.03



Sheet #	92
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Oct/29/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier 12_Ped_A1.rcp			Date

Line #	Bearing #	Dir	Load kips
2	14	Z	-0.02
2	15	X	-0.02
2	15	Y	-0.03
2	15	Z	-0.31
2	16	X	-0.02
2	16	Y	0.00
2	16	Z	-0.31
2	17	X	-0.02
2	17	Y	0.00
2	17	Z	-0.31
2	18	X	-0.02
2	18	Y	0.00
2	18	Z	-0.31
2	19	X	-0.02
2	19	Y	0.00
2	19	Z	-0.31
2	20	X	-0.02
2	20	Y	0.00
2	20	Z	-0.31
2	21	X	-0.02
2	21	Y	0.00
2	21	Z	-0.31
2	22	X	-0.02
2	22	Y	0.00
2	22	Z	-0.31
1	21	Z	-0.02
1	21	Y	0.00
1	21	X	-0.31
1	22	Z	-0.02
1	22	Y	0.03
1	22	X	-0.31

Loadcase ID: LL1 Name:
Multiplier = 1.000

Bearing loads



Sheet # 93
Job # 59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Oct/29/2013
File Name:		www.bentley.com Phone: 1-800-778-4277	Checked	
			Date	

Line #	Bearing #	Dir	Load kips
1	1	Y	-132.40
1	2	Y	-139.30
1	3	Y	-139.30
1	4	Y	-139.30
1	5	Y	-130.00
1	6	Y	-120.40
1	7	Y	-120.40
1	8	Y	-120.40
1	9	Y	-116.60

Loadcase ID: LL2 Name:
Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	12	Y	-126.20
1	13	Y	-126.70
1	14	Y	-126.70
1	15	Y	-126.70
1	16	Y	-121.30
1	17	Y	-115.90
1	18	Y	-115.90
1	19	Y	-115.90
1	20	Y	-107.10
1	21	Y	-98.20
1	22	Y	-114.80



Sheet # 94
Job # 59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Oct/29/2013
File Name:		www.bentley.com Phone: 1-800-778-4277	Checked	
			Date	

Loadcase ID: LL3 Name:
Multiplier = 1.000


Bearing loads

Line #	Bearing #	Dir	Load kips
2	1	Y	-108.30
2	2	Y	-138.80
2	3	Y	-138.80
2	4	Y	-138.80
2	5	Y	-137.90
2	6	Y	-137.10
2	7	Y	-137.10
2	8	Y	-137.10
2	9	Y	-137.10
2	10	Y	-167.70

Loadcase ID: LL4 Name:
Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
2	13	Y	-167.70
2	14	Y	-137.10
2	15	Y	-137.10
2	16	Y	-137.10
2	17	Y	-137.10
2	18	Y	-137.90
2	19	Y	-138.80
2	20	Y	-138.80
2	21	Y	-138.80

		Sheet #	95
		Job #	59219
Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date Oct/29/2013
		www.bentley.com	Phone: 1-800-778-4277
File Name:	Pier 12_Ped_A1.rcp		Checked
			Date

Line #	Bearing #	Dir	Load kips
2	22	Y	-108.30

Loadcase ID: LL5 Name:
Multiplier = 1.000


Bearing loads

Line #	Bearing #	Dir	Load kips
1	10	Y	-8.00
1	11	Y	-8.00
2	11	Y	-2.00
2	12	Y	-2.00

Loadcase ID: LL6 Name:
Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	10	Y	-2.00
1	11	Y	-2.00
2	11	Y	-8.00

		Sheet #	96
		Job #	59219
Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date Oct/29/2013
		www.bentley.com	Phone: 1-800-778-4277
File Name:	Pier 12_Ped_A1.rcp		Checked
			Date

Line #	Bearing #	Dir	Load kips
2	12	Y	-8.00

Loadcase ID: BR1 Name:
Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	1	Z	14.60
1	2	Z	14.60
1	3	Z	14.60
1	4	Z	14.60
1	5	Z	14.60
1	6	Z	14.60
1	7	Z	14.60
1	8	Z	14.60
1	9	Z	14.60

Loadcase ID: BR2 Name:



Sheet # 97
Job # 59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Oct/29/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier 12_Ped_A1.rcp			Date

Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	12	Y	-1.60
1	13	Y	-1.70
1	14	Y	-1.70
1	15	Y	-1.60
1	16	Y	-1.50
1	17	Y	-1.40
1	18	Y	-1.40
1	19	Y	-1.40
1	20	Y	-1.30
1	21	Y	-1.10
1	22	Y	-1.00
1	12	Z	-12.10
1	13	Z	-12.10
1	14	Z	-12.10
1	15	Z	-12.10
1	16	Z	-12.10
1	17	Z	-12.10
1	18	Z	-12.10
1	19	Z	-12.10
1	20	Z	-12.10
1	21	Z	-12.10
1	22	Z	-12.10

Loadcase ID: BR3 Name:
Multiplier = 1.000

Bearing loads



Sheet # 98
Job # 59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Oct/29/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier 12_Ped_A1.rcp			Date

Line #	Bearing #	Dir	Load kips
1	1	Y	-1.20
1	2	Y	-1.60
1	3	Y	-1.60
1	4	Y	-1.60
1	5	Y	-1.60
1	6	Y	-1.60
1	7	Y	-1.60
1	8	Y	-1.60
1	9	Y	-1.60
1	10	Y	-1.80
1	1	Z	13.40
1	2	Z	13.40
1	3	Z	13.40
1	4	Z	13.40
1	5	Z	13.40
1	6	Z	13.40
1	7	Z	13.40
1	8	Z	13.40
1	9	Z	13.40
1	10	Z	13.40

Loadcase ID: BR4 Name:
Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	13	Y	0.00
1	14	Y	0.00
1	15	Y	0.00
1	16	Y	0.00
1	17	Y	0.00
1	18	Y	0.00
1	19	Y	0.00
1	20	Y	0.00
1	21	Y	0.00



Sheet #	99
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Oct/29/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier 12_Ped_A1.rcp			Date

Line #	Bearing #	Dir	Load kips
1	22	Y	0.00
1	13	Z	-13.40
1	14	Z	-13.40
1	15	Z	-13.40
1	16	Z	-13.40
1	17	Z	-13.40
1	18	Z	-13.40
1	19	Z	-13.40
1	20	Z	-13.40
1	21	Z	-13.40
1	22	Z	-13.40

Loadcase ID: BR5 Name:
Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	10	Y	-0.20
1	11	Y	-0.20
2	11	Y	0.00
2	12	Y	0.00
1	10	Z	-2.00
1	11	Z	-2.00
2	11	Z	-0.50
2	12	Z	-0.50

Loadcase ID: BR6 Name:



Sheet #	100
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Oct/29/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier 12_Ped_A1.rcp			Date

Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	10	Y	0.00
1	11	Y	0.00
2	11	Y	-0.20
2	12	Y	-0.20
1	10	Z	0.50
1	11	Z	0.50
2	11	Z	2.00
2	12	Z	2.00

Loadcase ID: DC1 Name:
Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	-106.10
1	2	Y	-128.60
1	3	Y	-133.50
1	4	Y	-138.10
1	5	Y	-135.20
1	6	Y	-131.00
1	7	Y	-134.50
1	8	Y	-138.00
1	9	Y	-130.30
1	10	Y	0.00
1	11	Y	0.00
1	12	Y	-166.40



Sheet #	101
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Oct/29/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier 12_Ped_A1.rcp			Date

Line #	Bearing #	Dir	Load kips
1	13	Y	-188.40
1	14	Y	-191.90
1	15	Y	-195.20
1	16	Y	-192.10
1	17	Y	-188.40
1	18	Y	-191.20
1	19	Y	-193.90
1	20	Y	-185.80
1	21	Y	-177.10
1	22	Y	-181.90
2	1	Y	-172.30
2	2	Y	-202.50
2	3	Y	-202.50
2	4	Y	-202.50
2	5	Y	-201.50
2	6	Y	-200.50
2	7	Y	-200.50
2	8	Y	-200.50
2	9	Y	-200.50
2	10	Y	-199.40
2	11	Y	0.00
2	12	Y	0.00
2	13	Y	-199.40
2	14	Y	-200.50
2	15	Y	-200.50
2	16	Y	-200.50
2	17	Y	-200.50
2	18	Y	-201.50
2	19	Y	-202.50
2	20	Y	-202.50
2	21	Y	-202.50
2	22	Y	-172.30

Loadcase ID: DC2 Name:
Multiplier = 1.000



Sheet #	102
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Oct/29/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier 12_Ped_A1.rcp			Date

Bearing loads

Line #	Bearing #	Dir	Load kips
1	10	Y	88.26
1	11	Y	88.26
2	11	Y	120.70
2	12	Y	120.70

Loadcase ID: DW1 Name:
Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	10	Y	8.07
1	11	Y	8.07
2	11	Y	11.03
2	12	Y	11.03

Loadcase ID: PL1 Name:
Multiplier = 1.000

Bearing loads



Sheet #	103			
Job #	59219			
Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Oct/29/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier 12_Ped_A1.rcp		Date	

Line #	Bearing #	Dir	Load kips
1	10	Y	35.13
1	11	Y	35.13

Loadcase ID: PL2 Name:
Multiplier = 1.000

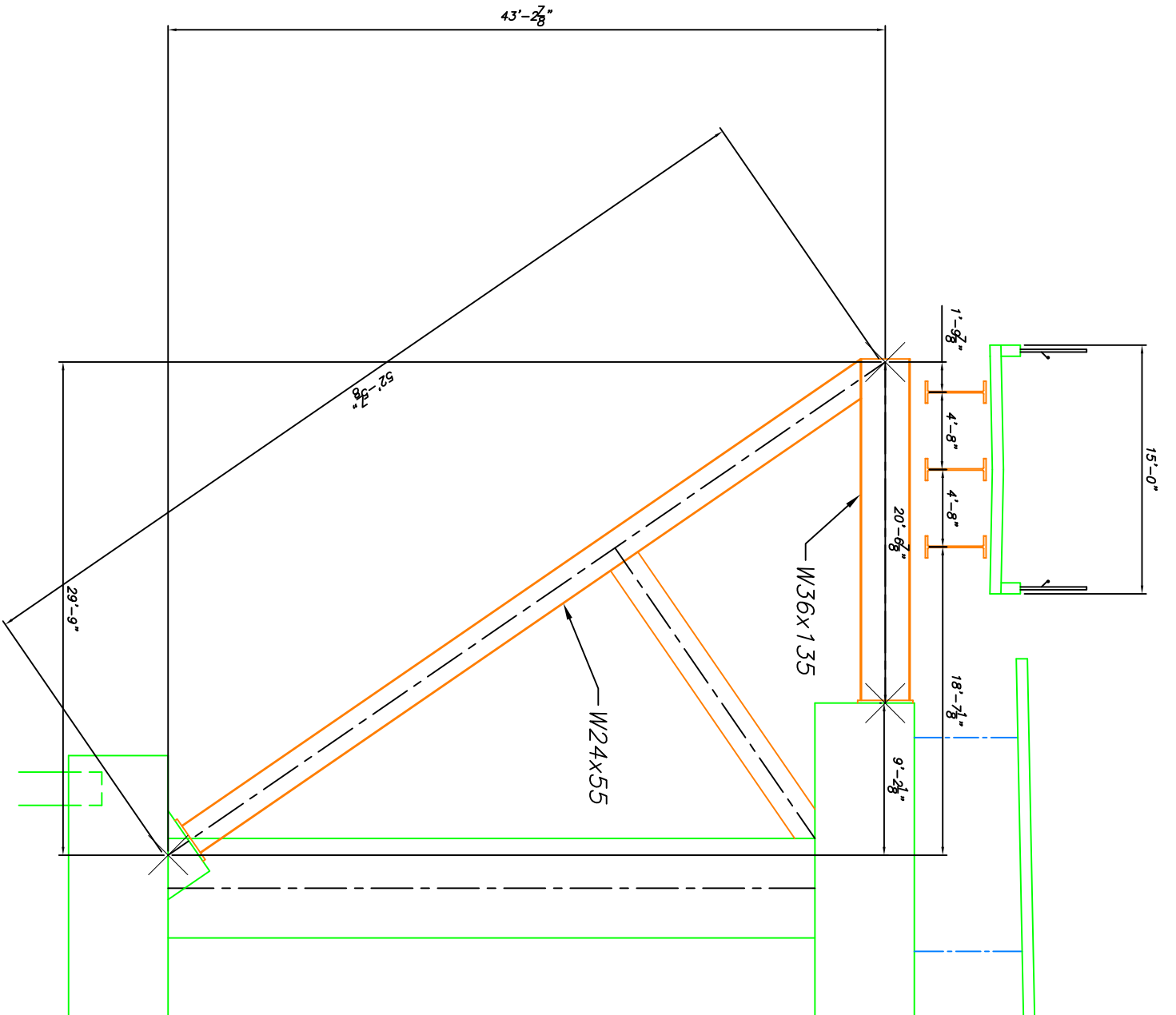
Bearing loads

Line #	Bearing #	Dir	Load kips
2	11	Y	48.04
2	12	Y	48.04

Selected load groups

STRENGTH GROUP I
STRENGTH GROUP III
STRENGTH GROUP V
SERVICE GROUP I

ALTERNATIVE 2





License #1X9ZSMQ3FLAN9GH

CSiBridge Analysis Report

Prepared by
HNTB

Model Name: Ped_A2_Sub.bdb

3 October 2014

Ped_A2_Sub.bdb
Contents

CSiBridge 2014 v16.1.0 - License #1X9ZSMQ3FLAN9GH
03 October 2014

Contents

1. Model geometry	4
1.1. Joint coordinates	4
1.2. Joint restraints	4
1.3. Element connectivity	5
2. Material properties	5
3. Section properties	6
3.1. Frames	6
4. Load patterns	7
4.1. Definitions	7
5. Load cases	7
5.1. Definitions	7
5.2. Static case load assignments	8
5.3. Response spectrum case load assignments	8
6. Load combinations	8
7. Structure results	9
7.1. Mass summary	9
7.2. Modal results	9
7.3. Base reactions	10
8. Joint results	10
9. Frame results	11
10. Material take-off	13
11. Design preferences	13
11.1. Aluminum design	13
11.2. Cold formed design	14

List of Figures

Figure 1: Finite element model	4
Figure 2: Deformed shape	9

List of Tables

Table 1: Joint Coordinates	4
Table 2: Joint Restraint Assignments	5
Table 3: Connectivity - Frame	5
Table 4: Frame Section Assignments	5
Table 5: Material Properties 02 - Basic Mechanical Properties	5
Table 6: Material Properties 03a - Steel Data	6
Table 7: Material Properties 03b - Concrete Data	6
Table 8: Material Properties 03e - Rebar Data	6
Table 9: Frame Section Properties 01 - General, Part 1 of 4	6
Table 9: Frame Section Properties 01 - General, Part 2 of 4	6
Table 9: Frame Section Properties 01 - General, Part 3 of 4	7
Table 9: Frame Section Properties 01 - General, Part 4 of 4	7
Table 10: Load Pattern Definitions	7
Table 11: Load Case Definitions	7
Table 12: Case - Static 1 - Load Assignments	8
Table 13: Function - Response Spectrum - User	8
Table 14: Combination Definitions	8
Table 15: Assembled Joint Masses	9

Table 16: [Modal Participating Mass Ratios](#) 9
 Table 17: [Base Reactions](#) 10
 Table 18: [Joint Displacements](#) 10
 Table 19: [Joint Reactions](#) 10
 Table 20: [Element Forces - Frames, Part 1 of 2](#) 11
 Table 20: [Element Forces - Frames, Part 2 of 2](#) 12
 Table 21: [Material List 2 - By Section Property](#) 13
 Table 22: [Preferences - Aluminum Design - AA-ASD 2000](#) 14
 Table 23: [Preferences - Cold Formed Design - AISI-ASD96](#) 14

1. Model geometry

This section provides model geometry information, including items such as joint coordinates, joint restraints, and element connectivity.

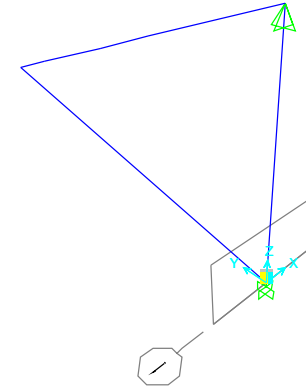


Figure 1: Finite element model

1.1. Joint coordinates

Table 1: Joint Coordinates

Joint	CoordSys	CoordType	Table 1: Joint Coordinates		
			GlobalX in	GlobalY in	GlobalZ in
1	GLOBAL	Cartesian	0.000	0.000	0.000
2	GLOBAL	Cartesian	-356.947	0.000	518.933
4	GLOBAL	Cartesian	0.000	0.000	518.933
5	GLOBAL	Cartesian	-335.131	0.000	518.933
6	GLOBAL	Cartesian	-279.131	0.000	518.933
7	GLOBAL	Cartesian	-223.131	0.000	518.933

1.2. Joint restraints

Table 2: Joint Restraint Assignments

Table 2: Joint Restraint Assignments						
Joint	U1	U2	U3	R1	R2	R3
1	Yes	Yes	Yes	Yes	Yes	Yes
4	Yes	Yes	Yes	No	No	No

1.3. Element connectivity

Table 3: Connectivity - Frame

Table 3: Connectivity - Frame			
Frame	JointI	JointJ	Length in
1	1	2	629.844
2	1	4	518.933
4	2	5	21.817
5	5	6	56.000
6	6	7	56.000
7	7	4	223.131

Table 4: Frame Section Assignments

Table 4: Frame Section Assignments			
Frame	AnalSect	DesignSect	MatProp
1	W36x135	N.A.	Default
2	Column	N.A.	Default
4	W36x135	N.A.	Default
5	W36x135	N.A.	Default
6	W36x135	N.A.	Default
7	W36x135	N.A.	Default

2. Material properties

This section provides material property information for materials used in the model.

Table 5: Material Properties 02 - Basic Mechanical Properties

Table 5: Material Properties 02 - Basic Mechanical Properties						
Material	UnitWeight Kip/in3	UnitMass Kip-s2/in4	E1 Kip/in2	G12 Kip/in2	U12	A1 1/F
5500psi	8.6806E-05	2.2483E-07	4046.000	1685.833	0.200000	5.5000E-06
A615Gr60	2.8356E-04	7.3446E-07	29000.000			6.5000E-06
A709Gr50	2.8356E-04	7.3446E-07	29000.000	11153.846	0.300000	6.5000E-06
A992Fy50	2.8356E-04	7.3446E-07	29000.000	11153.846	0.300000	6.5000E-06

Table 6: Material Properties 03a - Steel Data

Table 6: Material Properties 03a - Steel Data			
Material	Fy Kip/in2	Fu Kip/in2	FinalSlope
A709Gr50	50.000	65.000	-0.100000
A992Fy50	50.000	65.000	-0.100000

Table 7: Material Properties 03b - Concrete Data

Table 7: Material Properties 03b - Concrete Data		
Material	Fc Kip/in2	FinalSlope
5500psi	5.500	-0.100000

Table 8: Material Properties 03e - Rebar Data

Table 8: Material Properties 03e - Rebar Data			
Material	Fy Kip/in2	Fu Kip/in2	FinalSlope
A615Gr60	60.000	90.000	-0.100000

3. Section properties

This section provides section property information for objects used in the model.

3.1. Frames

Table 9: Frame Section Properties 01 - General, Part 1 of 4

Table 9: Frame Section Properties 01 - General, Part 1 of 4								
SectionName	Material	Shape	t3 in	t2 in	tf in	tw in	t2b in	tfb in
Column	5500psi	SD Section						
W24x55	A992Fy50	I/Wide Flange	24.0000	7.0100	0.5050	0.3950	7.0100	0.5050
W36x135	A992Fy50	I/Wide Flange	36.0000	12.0000	0.7900	0.6000	12.0000	0.7900

Table 9: Frame Section Properties 01 - General, Part 2 of 4

Table 9: Frame Section Properties 01 - General, Part 2 of 4							
SectionName	I23 in4	Area in2	TorsConst in4	I33 in4	I22 in4	AS2 in2	AS3 in2
Column	0.00	3168.00	1429924.89	546048.00	1195776.00	2729.16	2715.20
W24x55	0.00	16.16	1.04	1377.21	29.11	9.48	5.90
W36x135	0.00	39.61	6.23	7916.30	228.14	21.60	15.80

Table 9: Frame Section Properties 01 - General, Part 3 of 4

Table 9: Frame Section Properties 01 - General, Part 3 of 4						
SectionName	S33 in3	S22 in3	Z33 in3	Z22 in3	R33 in	R22 in
Column	22752.00	33216.00	35712.00	52992.00	13.1287	19.4282
W24x55	114.77	8.31	135.37	13.30	9.2313	1.3421
W36x135	439.79	38.02	511.50	59.98	14.1367	2.3999

Table 9: Frame Section Properties 01 - General, Part 4 of 4

Table 9: Frame Section Properties 01 - General, Part 4 of 4								
SectionName	AMod	A2Mod	A3Mod	JMod	I2Mod	I3Mod	MMod	WMod
Column	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000
W24x55	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000
W36x135	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000	1.000000

4. Load patterns

This section provides loading information as applied to the model.

4.1. Definitions

Table 10: Load Pattern Definitions

Table 10: Load Pattern Definitions			
LoadPat	DesignType	SelfWtMult	AutoLoad
DEAD	DEAD	1.000000	
STR I	DEAD	0.000000	

5. Load cases

This section provides load case information.

5.1. Definitions

Table 11: Load Case Definitions

Table 11: Load Case Definitions						
Case	Type	InitialCond	ModalCase	BaseCase	DesActOpt	DesignAct
DEAD	LinStatic	Zero			Prog Det	Non-Composite
MODAL	LinModal	Zero			Prog Det	Other

Table 11: Load Case Definitions

Case	Type	InitialCond	ModalCase	BaseCase	DesActOpt	DesignAct
STR I	LinStatic	Zero			Prog Det	Non-Composite

5.2. Static case load assignments

Table 12: Case - Static 1 - Load Assignments

Table 12: Case - Static 1 - Load Assignments			
Case	LoadType	LoadName	LoadSF
DEAD	Load pattern	DEAD	1.000000
STR I	Load pattern	STR I	1.000000

5.3. Response spectrum case load assignments

Table 13: Function - Response Spectrum - User

Table 13: Function - Response Spectrum - User			
Name	Period Sec	Accel	FuncDamp
UNIFRS	0.000000	1.000000	0.050000
UNIFRS	1.000000	1.000000	

6. Load combinations

This section provides load combination information.

Table 14: Combination Definitions

Table 14: Combination Definitions			
ComboName	ComboType	CaseName	ScaleFactor
STR COMB I	Linear Add	DEAD	1.250000
STR COMB I		STR I	1.000000

7. Structure results

This section provides structure results, including items such as structural periods and base reactions.

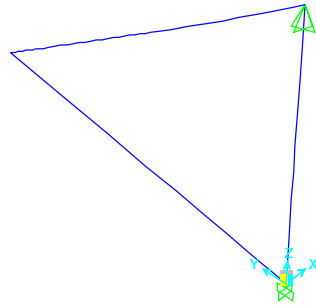


Figure 2: Deformed shape

7.1. Mass summary

Table 15: Assembled Joint Masses

Table 15: Assembled Joint Masses							
Joint	MassSource	U1	U2	U3	R1	R2	R3
		Kip-s2/in	Kip-s2/in	Kip-s2/in	Kip-in-s2	Kip-in-s2	Kip-in-s2
1	MSSSRC1	0.1940	0.1940	0.1940	0.000	0.000	0.000
2	MSSSRC1	0.0095	0.0095	0.0095	0.000	0.000	0.000
4	MSSSRC1	0.1881	0.1881	0.1881	0.000	0.000	0.000
5	MSSSRC1	0.0011	0.0011	0.0011	0.000	0.000	0.000
6	MSSSRC1	0.0016	0.0016	0.0016	0.000	0.000	0.000
7	MSSSRC1	0.0041	0.0041	0.0041	0.000	0.000	0.000

7.2. Modal results

Table 16: Modal Participating Mass Ratios

Table 16: Modal Participating Mass Ratios								
OutputCase	StepNum	Period Sec	UX	UY	UZ	SumUX	SumUY	SumUZ
MODAL	1.000000	0.965354	0.0000	0.9317	0.0000	0.0000	0.9317	0.0000
MODAL	2.000000	0.107029	0.0000	0.0677	0.0000	0.0000	0.9994	0.0000
MODAL	3.000000	0.024699	0.0403	0.0000	0.9198	0.0403	0.9994	0.9198
MODAL	4.000000	0.017682	3.762E-20	6.254E-04	1.317E-20	0.0403	1.0000	0.9198
MODAL	5.000000	0.016255	0.1269	0.0000	0.0125	0.1672	1.0000	0.9323

Table 16: Modal Participating Mass Ratios								
OutputCase	StepNum	Period Sec	UX	UY	UZ	SumUX	SumUY	SumUZ
MODAL	6.000000	0.011156	0.8139	0.0000	0.0668	0.9811	1.0000	0.9991
MODAL	7.000000	0.005493	4.463E-18	3.880E-06	1.403E-20	0.9811	1.0000	0.9991
MODAL	8.000000	0.003962	1.333E-04	0.0000	7.778E-04	0.9812	1.0000	0.9999
MODAL	9.000000	0.003257	0.0187	0.0000	8.035E-05	0.9999	1.0000	1.0000
MODAL	10.000000	0.001817	3.546E-06	0.0000	1.168E-07	0.9999	1.0000	1.0000
MODAL	11.000000	0.001271	1.056E-04	0.0000	3.381E-07	1.0000	1.0000	1.0000
MODAL	12.000000	0.000734	2.629E-08	0.0000	4.220E-08	1.0000	1.0000	1.0000

7.3. Base reactions

Table 17: Base Reactions

Table 17: Base Reactions						
OutputCase	GlobalFX Kip	GlobalFY Kip	GlobalFZ Kip	GlobalMX Kip-in	GlobalMY Kip-in	GlobalMZ Kip-in
DEAD	-3.553E-15	0.000	153.791	0.000	1978.237	0.000
STR I	-3.411E-13	0.000	1072.500	0.000	299367.676	0.000

8. Joint results

This section provides joint results, including items such as displacements and reactions.

Table 18: Joint Displacements

Table 18: Joint Displacements							
Joint	OutputCase	U1 in	U2 in	U3 in	R1 Radians	R2 Radians	R3 Radians
1	DEAD	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
1	STR I	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
2	DEAD	-0.000884	0.000000	-0.004223	0.000000	0.000074	0.000000
2	STR I	-0.155148	0.000000	-0.727082	0.000000	0.008716	0.000000
4	DEAD	0.000000	0.000000	0.000000	0.000000	-6.363E-06	0.000000
4	STR I	0.000000	0.000000	0.000000	6.321E-20	-0.000898	0.000000
5	DEAD	-0.000830	0.000000	-0.005821	0.000000	0.000064	0.000000
5	STR I	-0.145665	0.000000	-0.997446	0.000000	0.009255	0.000000
6	DEAD	-0.000691	0.000000	-0.008656	0.000000	0.000031	0.000000
6	STR I	-0.121325	0.000000	-1.540899	1.418E-20	0.005600	0.000000
7	DEAD	-0.000553	0.000000	-0.009394	0.000000	-4.155E-06	0.000000
7	STR I	-0.096984	0.000000	-1.677501	2.401E-20	-0.001494	0.000000

Table 19: Joint Reactions

Table 19: Joint Reactions							
Joint	OutputCase	F1 Kip	F2 Kip	F3 Kip	M1 Kip-in	M2 Kip-in	M3 Kip-in
1	DEAD	-3.500	-2.564E-19	79.527	1.330E-16	162.053	0.000

Table 19: Joint Reactions

Joint	OutputCase	F1 Kip	F2 Kip	F3 Kip	M1 Kip-in	M2 Kip-in	M3 Kip-in
1	STR I	-591.733	-3.617E-17	788.012	1.877E-14	-7702.237	0.000
4	DEAD	3.500	2.564E-19	74.264	0.000	0.000	0.000
4	STR I	591.733	3.617E-17	284.488	0.000	0.000	0.000

9. Frame results

This section provides frame force results.

Table 20: Element Forces - Frames, Part 1 of 2

Frame	Station in	OutputCase	P Kip	V2 Kip	V3 Kip
1	0.000	DEAD	-8.346	-2.288	0.000
1	314.922	DEAD	-5.432	-0.283	0.000
1	629.844	DEAD	-2.517	1.721	0.000
1	0.000	STR I	-932.218	-35.203	3.517E-20
1	314.922	STR I	-932.218	-35.203	3.517E-20
1	629.844	STR I	-932.218	-35.203	3.517E-20
2	0.000	DEAD	-71.353	4.037E-17	-0.655
2	259.467	DEAD	-2.842E-14	4.037E-17	-0.655
2	518.933	DEAD	71.353	4.037E-17	-0.655
2	0.000	STR I	0.000	5.696E-15	-92.427
2	259.467	STR I	0.000	5.696E-15	-92.427
2	518.933	STR I	0.000	5.696E-15	-92.427
4	0.000	DEAD	2.845	-1.098	0.000
4	21.817	DEAD	2.845	-0.853	0.000
4	0.000	STR I	499.306	-788.012	-3.517E-20
4	21.817	STR I	499.306	-788.012	-3.517E-20
5	0.000	DEAD	2.845	-0.853	0.000
5	18.667	DEAD	2.845	-0.644	0.000
5	37.333	DEAD	2.845	-0.434	0.000
5	56.000	DEAD	2.845	-0.224	0.000
5	0.000	STR I	499.306	-430.512	-3.517E-20
5	18.667	STR I	499.306	-430.512	-3.517E-20
5	37.333	STR I	499.306	-430.512	-3.517E-20
5	56.000	STR I	499.306	-430.512	-3.517E-20
6	0.000	DEAD	2.845	-0.224	0.000
6	18.667	DEAD	2.845	-0.015	0.000
6	37.333	DEAD	2.845	0.195	0.000
6	56.000	DEAD	2.845	0.405	0.000
6	0.000	STR I	499.306	-73.012	-3.517E-20
6	18.667	STR I	499.306	-73.012	-3.517E-20
6	37.333	STR I	499.306	-73.012	-3.517E-20
6	56.000	STR I	499.306	-73.012	-3.517E-20
7	0.000	DEAD	2.845	0.405	0.000
7	22.313	DEAD	2.845	0.655	0.000
7	44.626	DEAD	2.845	0.906	0.000
7	66.939	DEAD	2.845	1.157	0.000
7	89.252	DEAD	2.845	1.407	0.000
7	111.565	DEAD	2.845	1.658	0.000

Table 20: Element Forces - Frames, Part 1 of 2

Frame	Station in	OutputCase	P Kip	V2 Kip	V3 Kip
7	133.878	DEAD	2.845	1.908	0.000
7	156.191	DEAD	2.845	2.159	0.000
7	178.505	DEAD	2.845	2.410	0.000
7	200.818	DEAD	2.845	2.660	0.000
7	223.131	DEAD	2.845	2.911	0.000
7	0.000	STR I	499.306	284.488	-3.517E-20
7	22.313	STR I	499.306	284.488	-3.517E-20
7	44.626	STR I	499.306	284.488	-3.517E-20
7	66.939	STR I	499.306	284.488	-3.517E-20
7	89.252	STR I	499.306	284.488	-3.517E-20
7	111.565	STR I	499.306	284.488	-3.517E-20
7	133.878	STR I	499.306	284.488	-3.517E-20
7	156.191	STR I	499.306	284.488	-3.517E-20
7	178.505	STR I	499.306	284.488	-3.517E-20
7	200.818	STR I	499.306	284.488	-3.517E-20
7	223.131	STR I	499.306	284.488	-3.517E-20

Table 20: Element Forces - Frames, Part 2 of 2

Frame	Station in	OutputCase	T Kip-in	M2 Kip-in	M3 Kip-in
1	0.000	DEAD	0.000	5.216E-20	-272.695
1	314.922	DEAD	0.000	-2.633E-20	132.214
1	629.844	DEAD	0.000	-1.048E-19	-94.206
1	0.000	STR I	-4.170E-20	7.359E-18	-7909.106
1	314.922	STR I	-4.170E-20	-3.716E-18	3177.035
1	629.844	STR I	-4.170E-20	-1.479E-17	14263.176
2	0.000	DEAD	2.980E-20	-110.641	6.908E-15
2	259.467	DEAD	2.980E-20	59.323	-3.566E-15
2	518.933	DEAD	2.980E-20	229.288	-1.404E-14
2	0.000	STR I	4.205E-18	-15611.343	9.747E-13
2	259.467	STR I	4.205E-18	8370.438	-5.032E-13
2	518.933	STR I	4.205E-18	32352.219	-1.981E-12
4	0.000	DEAD	8.653E-20	-5.916E-20	94.206
4	21.817	DEAD	8.653E-20	-5.373E-20	115.497
4	0.000	STR I	1.221E-17	-8.348E-18	-14263.176
4	21.817	STR I	1.221E-17	-7.581E-18	2928.559
5	0.000	DEAD	8.653E-20	-5.373E-20	115.497
5	18.667	DEAD	8.653E-20	-4.907E-20	129.470
5	37.333	DEAD	8.653E-20	-4.442E-20	139.529
5	56.000	DEAD	8.653E-20	-3.977E-20	145.674
5	0.000	STR I	1.221E-17	-7.581E-18	2928.559
5	18.667	STR I	1.221E-17	-6.924E-18	10964.776
5	37.333	STR I	1.221E-17	-6.268E-18	19000.994
5	56.000	STR I	1.221E-17	-5.611E-18	27037.212
6	0.000	DEAD	8.653E-20	-3.977E-20	145.674
6	18.667	DEAD	8.653E-20	-3.512E-20	147.905
6	37.333	DEAD	8.653E-20	-3.046E-20	146.222
6	56.000	DEAD	8.653E-20	-2.581E-20	140.625
6	0.000	STR I	1.221E-17	-5.611E-18	27037.212
6	18.667	STR I	1.221E-17	-4.955E-18	28400.996
6	37.333	STR I	1.221E-17	-4.298E-18	29762.980

Table 20: Element Forces - Frames, Part 2 of 2

Frame	Station in	OutputCase	T Kip-in	M2 Kip-in	M3 Kip-in
6	56.000	STR I	1.221E-17	-3.642E-18	31125.864
7	0.000	DEAD	8.653E-20	-2.581E-20	140.625
7	22.313	DEAD	8.653E-20	-2.025E-20	128.800
7	44.626	DEAD	8.653E-20	-1.469E-20	111.382
7	66.939	DEAD	8.653E-20	0.000	88.371
7	89.252	DEAD	8.653E-20	0.000	59.769
7	111.565	DEAD	8.653E-20	0.000	25.574
7	133.878	DEAD	8.653E-20	0.000	-14.214
7	156.191	DEAD	8.653E-20	1.312E-20	-59.594
7	178.505	DEAD	8.653E-20	1.868E-20	-110.566
7	200.818	DEAD	8.653E-20	2.424E-20	-167.131
7	223.131	DEAD	8.653E-20	2.980E-20	-229.288
7	0.000	STR I	1.221E-17	-3.642E-18	31125.864
7	22.313	STR I	1.221E-17	-2.857E-18	24778.056
7	44.626	STR I	1.221E-17	-2.073E-18	18430.247
7	66.939	STR I	1.221E-17	-1.288E-18	12082.439
7	89.252	STR I	1.221E-17	-5.031E-19	5734.631
7	111.565	STR I	1.221E-17	2.816E-19	-613.178
7	133.878	STR I	1.221E-17	1.066E-18	-6960.986
7	156.191	STR I	1.221E-17	1.851E-18	-13308.794
7	178.505	STR I	1.221E-17	2.636E-18	-19656.603
7	200.818	STR I	1.221E-17	3.420E-18	-26004.411
7	223.131	STR I	1.221E-17	4.205E-18	-32352.219

10. Material take-off

This section provides a material take-off.

Table 21: Material List 2 - By Section Property

Table 21: Material List 2 - By Section Property

Section	ObjectType	NumPieces	TotalLength in	TotalWeight Kip
W36x135	Frame	5	986.791	11.084
Column	Frame	1	518.933	142.707

11. Design preferences

This section provides the design preferences for each type of design, which typically include material reduction factors, framing type, stress ratio limit, deflection limits, and other code specific items.

11.1. Aluminum design

Table 22: Preferences - Aluminum Design - AA-ASD 2000

Table 22: Preferences - Aluminum Design - AA-ASD 2000

FrameType	SRatioLimit	LatFact	UseLatFact
Moment Frame	1.000000	1.333333	No

11.2. Cold formed design

Table 23: Preferences - Cold Formed Design - AISI-ASD96

Table 23: Preferences - Cold Formed Design - AISI-ASD96

FrameType	SRatioLimit	OmegaBS	OmegaBUS	OmegaBLTB	OmegaVS	OmegaVNS	OmegaT	OmegaC
Braced Frame	1.000000	1.670000	1.670000	1.670000	1.670000	1.500000	1.670000	1.800000



Sheet #	1
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp		Date	

PROJECT DATA

PROJECT DATA

Project:	I4 Over St. John's River
User Job No.:	
Designer:	KSM
Date:	Sep/10/2013
Checker:	
Checked date:	
State:	FL
State Job No.:	
Structure type:	Pier.
Pier View:	Upstation.
Code:	AASHTO LRFD (6th Edition, 2012)
Comments:	I4 Over St. John's River Bridge - Pier 12R (EB)



Sheet #	2
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp		Date	

PIER GEOMETRY

Pier Info:

Pier View:	Upstation.
Pier Type:	Multi Column

Cap Shape

Cap Shape:	Variable
Top Elevations:	start = 47.28 ft end = 47.28 ft
Depth(Z):	54.00 in Skew angle = 14.15 Reduction of I = 1.000

Variable Cap Properties

Distance(X)	Height(Y)
ft	in
0.00	0.01
1.25	72.00
98.81	72.00
1.25	0.01

Column Shape : Rectangular Chamfered

Number of columns:	3
--------------------	---

Column number 1

Location from the left edge of the cap(X):	18.14 ft
Elevations: bottom = 4.25 ft top = 47.28 ft Reduction of I = 1.000	
Column Bottom is Fixed	

Column Section Dimensions

Dist from last(Y)	Width(X)	Depth(Z)	ChamferX	ChamferZ	Variation
ft	in	in	in	in	
0.00	72.00	48.00	12.00	12.00	-----
43.03	72.00	48.00	12.00	12.00	Linear

Column number 2

Location from the left edge of the cap(X):	55.23 ft
Elevations: bottom = 4.25 ft top = 47.28 ft Reduction of I = 1.000	
Column Bottom is Fixed	

Column Section Dimensions

		Sheet #	3
		Job #	
Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277
File Name:	Pier12EB_Ped_A2.rcp	Checked	Date

Dist from last(Y) ft	Width(X) in	Depth(Z) in	ChamferX in	ChamferZ in	Variation
0.00	72.00	48.00	12.00	12.00	-----
43.03	72.00	48.00	12.00	12.00	Linear

Column number 3
 Location from the left edge of the cap(X): 89.39 ft
 Elevations: bottom = 4.25 ft top = 47.28 ft Reduction of I = 1.000
 Column Bottom is Fixed

Column Section Dimensions

Dist from last(Y) ft	Width(X) in	Depth(Z) in	ChamferX in	ChamferZ in	Variation
0.00	72.00	48.00	12.00	12.00	-----
43.03	72.00	48.00	12.00	12.00	Linear

Struts
 Strut Shape : Rectangular
 Number of struts: 1

Struts properties
 Strut number 1
 Elevations: start = 10.25 ft end = 10.25 ft
 Depth(Z) = 24.00 in Height(Y) = 62.00 in Reduction of I = 1.000

		Sheet #	4
		Job #	
Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277
File Name:	Pier12EB_Ped_A2.rcp	Checked	Date

SUPERSTRUCTURE INFO


Superstructure info:

Total number of spans:	2
Span number rear to current pier:	1
Number of traffic lanes:	8
Barrier height :	32.00 in
Depth of slab :	8.50 in
Curb to curb distance: 0.000	99.990 ft

Beam info:

Height in	Section area in^2	Inertia (Ixx) in^4	Inertia (Iyy) in^4	Beam CG in
78.00	1100.58	903861.00	82270.00	34.63

Span #	Span length ft	Bridge Width ft
1	141.844	103.070
2	142.333	103.070

		Sheet #	5
		Job #	
Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp	Date	

BEARING POINTS


Number of bearing lines: 2

First bearing line Eccentricity = 1.21 ft

Point	Distance ft
1	2.10
2	12.92
3	23.75
4	34.58
5	45.41
6	54.95
7	64.49
8	74.03
9	83.57
10	91.09
11	98.61

Second bearing line Eccentricity = -1.21 ft


Point	Distance ft
1	2.71
2	13.53
3	24.36
4	35.19
5	46.02
6	56.66
7	67.30
8	77.94
9	88.58
10	99.22

		Sheet #	6
		Job #	
Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp	Date	

MATERIAL PROPERTIES

MATERIAL PROPERTIES

	Cap	Column	Footing
Concrete Type	normal	normal	normal
Concrete Strength (psi)	5500.00	5500.00	5500.00
Concrete Density (lb/ft3)	150.00	150.00	150.00
Concrete Modulus Ec (ksi)	3845.80	3845.80	3845.80
Steel Strength Fy (ksi)	60.00	60.00	60.00

		Sheet #	7
		Job #	
Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp		Date

DESIGN PARAMETERS

Resistance factors for reinf. concrete

Flexure and tension	0.90
Shear and torsion (normal)	0.90
Shear and torsion (lightweight)	0.70
Axial compression (ties)	0.75
Axial compression (spiral)	0.75
Compression in STM	0.70

Multi presence factors for live load

1 Lane	1.20
2 Lanes	1.00
3 Lanes	0.85
more than 3 Lanes	0.65

Dynamic load allowance IM

	Truck	Lane	Fatigue
Cap	0.33	0.00	0.15
Column	0.33	0.00	0.15
Footing	0.00	0.00	0.00

	Exposure factors	Clear cover in	Clear side cover in
Cap	1.00	2.00	2.00
Column	1.00	2.00	2.00
Footing	1.00	3.00	3.00

Degree of fixity in foundations for Moment Magnify Method: Ga = 5.00

SEISMIC DESIGN PARAMETERS

Strength Reduction factors for reinf. Concrete Seismic Design

Seismic Overstrength

Flexure and tension	1.30
Axial compression (ties)	1.30
Axial compression (spiral)	1.30


Response Modification Factor 5.00

Use core area for plastic hinging calculations.

Design Factors

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	8
		Job #	
Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp		Date

Cap Design Factor	1.20
Footing Design Factor	1.20

Plastic Hinge Moment

Use actual computed Plastic Hinging Moment for each column in all combinations.

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	9
		Job #	
Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277
File Name:	Pier12EB_Ped_A2.rcp	Checked	Date

LOADS

Pier Info:

Pier View: | Upstation.

Load Cases: 203

Loadcase ID: DC1 Name:

Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	-157.80
1	2	Y	-171.25
1	3	Y	-174.64
1	4	Y	-178.03
1	5	Y	-176.00
1	6	Y	-173.31
1	7	Y	-176.11
1	8	Y	-178.92
1	9	Y	-172.57
1	10	Y	-165.48
1	11	Y	-176.10
2	1	Y	-169.92
2	2	Y	-169.46
2	3	Y	-170.03
2	4	Y	-178.57
2	5	Y	-180.44
2	6	Y	-177.72
2	7	Y	-173.84
2	8	Y	-174.40
2	9	Y	-175.87
2	10	Y	-169.66

		Sheet #	10
		Job #	
Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277
File Name:	Pier12EB_Ped_A2.rcp	Checked	Date

Auto generation details:

Generated Dead Load

Slab weight = 150.00 pcf
 Girder weight = 150.00 pcf
 Wearing weight = Not included
 Barrier load = 418.00 pcf

Loadcase ID: LL1 Name:

Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	-1.21
1	8	Y	-22.52
1	9	Y	-28.86
1	10	Y	-20.95
1	11	Y	-26.45
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	-5.41
2	8	Y	-23.51
2	9	Y	-24.67
2	10	Y	-21.37
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00



Sheet # 11
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp			Date

Line #	Bearing #	Dir	Load kips
1	7	Y	-1.49
1	8	Y	-26.66
1	9	Y	-31.91
1	10	Y	-24.90
1	11	Y	-30.78
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	-7.84
2	8	Y	-37.16
2	9	Y	-38.37
2	10	Y	-32.77

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load
--------------------	--

Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
Total number of Possible Combination = 401576

Loadcase ID: LL2 Name:



Sheet # 12
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp			Date

Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	-6.08
1	5	Y	-35.49
1	6	Y	-40.18
1	7	Y	-40.18
1	8	Y	-40.36
1	9	Y	-37.85
1	10	Y	-27.48
1	11	Y	-34.70
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	-3.40
1	5	Y	-24.76
1	6	Y	-27.29
1	7	Y	-27.29
1	8	Y	-27.29
1	9	Y	-24.40
1	10	Y	-19.04
1	11	Y	-23.54
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	0.00



Sheet # 13
Job #

Program: LEAP® RC-PIER® V8i (SELECTseries 5) SE Client Licenses Designed KSM
Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 Date Sep/10/2013
www.bentley.com Phone: 1-800-778-4277 Checked
File Name: Pier12EB_Ped_A2.rcp Date

Line #	Bearing #	Dir	Load kips
2	10	Y	0.00

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load
--------------------	--

Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
Total number of Possible Combination = 401576

Loadcase ID: LL3 Name:

Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	-21.69
1	2	Y	-22.81
1	3	Y	-5.46



Sheet # 14
Job #

Program: LEAP® RC-PIER® V8i (SELECTseries 5) SE Client Licenses Designed KSM
Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 Date Sep/10/2013
www.bentley.com Phone: 1-800-778-4277 Checked
File Name: Pier12EB_Ped_A2.rcp Date

Line #	Bearing #	Dir	Load kips
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	-5.16
1	11	Y	-19.82
2	1	Y	-31.76
2	2	Y	-28.56
2	3	Y	-6.34
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	-6.79
2	10	Y	-26.54
1	1	Y	-33.05
1	2	Y	-36.14
1	3	Y	-7.97
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	-7.96
1	11	Y	-30.62
2	1	Y	-36.15
2	2	Y	-34.65
2	3	Y	-6.63
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	-7.89
2	10	Y	-30.83

Auto generation details:

Generated Live Load



Sheet #	15
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp	Date		

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load
--------------------	--

Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
Total number of Possible Combination = 401576

Loadcase ID: LL4	Name:
Multiplier = 1.000	

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	-26.70
1	2	Y	-6.63
1	3	Y	-3.84
1	4	Y	-28.44
1	5	Y	-28.83
1	6	Y	-5.55
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	-21.42
2	2	Y	-3.56
2	3	Y	-3.59
2	4	Y	-22.03
2	5	Y	-21.35
2	6	Y	-3.01
2	7	Y	0.00



Sheet #	16
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp	Date		

Line #	Bearing #	Dir	Load kips
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00
1	1	Y	-30.91
1	2	Y	-7.67
1	3	Y	-3.59
1	4	Y	-33.72
1	5	Y	-34.47
1	6	Y	-5.38
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	-33.19
2	2	Y	-5.52
2	3	Y	-4.63
2	4	Y	-35.10
2	5	Y	-33.92
2	6	Y	-3.78
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load
--------------------	--

Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected



Sheet #	17
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp			Date

Total number of Considered Truck Positions = 36
 Total number of Possible Combination = 401576

Loadcase ID: LL5 Name:
 Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	-7.32
2	5	Y	-39.26
2	6	Y	-45.08
2	7	Y	-45.08
2	8	Y	-45.08
2	9	Y	-43.17
2	10	Y	-37.40
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00



Sheet #	18
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp			Date

Line #	Bearing #	Dir	Load kips
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	-4.28
2	5	Y	-27.31
2	6	Y	-30.55
2	7	Y	-30.55
2	8	Y	-30.55
2	9	Y	-29.34
2	10	Y	-25.06

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load
--------------------	--

Transverse Positioning

Number of loaded lanes = all combinations
 Live Load Positions = Constant Spacing
 Minimum Distance from Curb = 2.00 ft
 Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
 Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
 Total number of Possible Combination = 401576

Loadcase ID: LL6 Name:
 Multiplier = 1.000



Sheet # 19
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp	Date		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	-2.99
1	7	Y	-27.90
1	8	Y	-36.22
1	9	Y	-11.31
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	-5.90
2	7	Y	-27.20
2	8	Y	-23.50
2	9	Y	-2.20
2	10	Y	0.00
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	-2.86
1	7	Y	-33.62
1	8	Y	-41.09
1	9	Y	-13.21
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	-8.32
2	7	Y	-43.14
2	8	Y	-36.87
2	9	Y	-2.77
2	10	Y	0.00



Sheet # 20
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp	Date		

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck
	Design Truck + Lane Load

Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
Total number of Possible Combination = 401576

Loadcase ID: LL7 Name:

Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	-3.05
1	3	Y	-27.65
1	4	Y	-34.92
1	5	Y	-28.83
1	6	Y	-5.55
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	-2.99



Sheet #	21
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier12EB_Ped_A2.rcp	Checked	Date	

Line #	Bearing #	Dir	Load kips
2	3	Y	-21.43
2	4	Y	-26.18
2	5	Y	-21.35
2	6	Y	-3.01
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00
1	1	Y	0.00
1	2	Y	-2.83
1	3	Y	-32.56
1	4	Y	-40.51
1	5	Y	-34.47
1	6	Y	-5.38
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	-3.75
2	3	Y	-34.04
2	4	Y	-40.65
2	5	Y	-33.92
2	6	Y	-3.78
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load
--------------------	--

Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing



Sheet #	22
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier12EB_Ped_A2.rcp	Checked	Date	

Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
Total number of Possible Combination = 401576

Loadcase ID: LL8 Name:

Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	-31.41
1	2	Y	-7.80
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	-8.09
1	11	Y	-31.12
2	1	Y	-25.21
2	2	Y	-4.19
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	-5.99
2	10	Y	-23.41
1	1	Y	-36.36
1	2	Y	-9.03
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00



Sheet #	23
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp	Date		

Line #	Bearing #	Dir	Load kips
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	-9.37
1	11	Y	-36.02
2	1	Y	-39.05
2	2	Y	-6.49
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	-9.28
2	10	Y	-36.27

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load
--------------------	--

Transverse Positioning

Number of loaded lanes = all combinations
 Live Load Positions = Constant Spacing
 Minimum Distance from Curb = 2.00 ft
 Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
 Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
 Total number of Possible Combination = 401576



Sheet #	24
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp	Date		

Loadcase ID: LL9 Name:
 Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	-2.32
1	3	Y	-21.13
1	4	Y	-26.70
1	5	Y	-25.03
1	6	Y	-23.42
1	7	Y	-23.42
1	8	Y	-23.54
1	9	Y	-7.35
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	-2.28
2	3	Y	-16.38
2	4	Y	-20.02
2	5	Y	-19.87
2	6	Y	-19.70
2	7	Y	-19.70
2	8	Y	-15.28
2	9	Y	-1.43
2	10	Y	0.00
1	1	Y	0.00
1	2	Y	-2.15
1	3	Y	-24.88
1	4	Y	-30.98
1	5	Y	-29.13
1	6	Y	-27.29
1	7	Y	-27.29
1	8	Y	-26.71
1	9	Y	-8.59
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	-2.86
2	3	Y	-26.02
2	4	Y	-31.09
2	5	Y	-30.82
2	6	Y	-30.55
2	7	Y	-30.55



Sheet #	25
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier12EB_Ped_A2.rcp	Checked	Date	

Line #	Bearing #	Dir	Load kips
2	8	Y	-23.96
2	9	Y	-1.80
2	10	Y	0.00

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution
 Selected Vehicles:

Design Truck
Design Truck + Lane Load

Transverse Positioning
 Number of loaded lanes = all combinations
 Live Load Positions = Constant Spacing
 Minimum Distance from Curb = 2.00 ft
 Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
 Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
 Total number of Possible Combination = 401576

Loadcase ID: LL10 Name:
 Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	-37.96



Sheet #	26
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier12EB_Ped_A2.rcp	Checked	Date	

Line #	Bearing #	Dir	Load kips
1	2	Y	-43.90
1	3	Y	-40.78
1	4	Y	-8.51
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	-1.59
1	8	Y	-29.54
1	9	Y	-37.85
1	10	Y	-27.48
1	11	Y	-34.70
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00
1	1	Y	-25.27
1	2	Y	-29.79
1	3	Y	-28.24
1	4	Y	-5.21
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	-1.14
1	8	Y	-20.39
1	9	Y	-24.40
1	10	Y	-19.04
1	11	Y	-23.54
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00

Auto generation details:



Sheet #	27
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp			Date

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load
--------------------	--

Transverse Positioning

Number of loaded lanes = all combinations
 Live Load Positions = Constant Spacing
 Minimum Distance from Curb = 2.00 ft
 Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
 Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
 Total number of Possible Combination = 401576

Loadcase ID: LL11 Name:

Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	-26.70
1	2	Y	-6.63
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	-2.54
1	7	Y	-23.71
1	8	Y	-30.79
1	9	Y	-9.62
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	-21.42
2	2	Y	-3.56
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00



Sheet #	28
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp			Date

Line #	Bearing #	Dir	Load kips
2	6	Y	-5.01
2	7	Y	-23.12
2	8	Y	-19.98
2	9	Y	-1.87
2	10	Y	0.00
1	1	Y	-30.91
1	2	Y	-7.67
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	-2.43
1	7	Y	-28.58
1	8	Y	-34.93
1	9	Y	-11.23
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	-33.19
2	2	Y	-5.52
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	-7.07
2	7	Y	-36.67
2	8	Y	-31.34
2	9	Y	-2.36
2	10	Y	0.00

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load
--------------------	--

Transverse Positioning

Number of loaded lanes = all combinations
 Live Load Positions = Constant Spacing
 Minimum Distance from Curb = 2.00 ft
 Center to Center Spacing = 10.00 ft



Sheet #	29
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp		Date	

Generate Braking/Longitudinal Force = Selected
 Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
 Total number of Possible Combination = 401576

Loadcase ID: LL12 Name:
 Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	-41.67
2	2	Y	-42.68
2	3	Y	-39.56
2	4	Y	-7.28
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	-9.46
2	8	Y	-41.15
2	9	Y	-43.17
2	10	Y	-37.40
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00



Sheet #	30
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp		Date	

Line #	Bearing #	Dir	Load kips
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	-27.64
2	2	Y	-29.36
2	3	Y	-27.56
2	4	Y	-4.26
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	-6.00
2	8	Y	-28.42
2	9	Y	-29.34
2	10	Y	-25.06

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck
	Design Truck + Lane Load

Transverse Positioning

Number of loaded lanes = all combinations
 Live Load Positions = Constant Spacing
 Minimum Distance from Curb = 2.00 ft
 Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
 Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
 Total number of Possible Combination = 401576

Loadcase ID: LL13 Name:
 Multiplier = 1.000



Sheet # 31
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp			Date

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	-3.84
1	4	Y	-28.44
1	5	Y	-28.83
1	6	Y	-5.55
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	-6.88
1	11	Y	-26.45
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	-3.59
2	4	Y	-22.03
2	5	Y	-21.35
2	6	Y	-3.01
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	-5.09
2	10	Y	-19.90
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	-3.59
1	4	Y	-33.72
1	5	Y	-34.47
1	6	Y	-5.38
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	-7.96
1	11	Y	-30.62
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	-4.63
2	4	Y	-35.10
2	5	Y	-33.92
2	6	Y	-3.78
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	-7.89
2	10	Y	-30.83

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 32
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp			Date

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load
--------------------	--

Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
Total number of Possible Combination = 401576

Loadcase ID: LL14 Name:

Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 33
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
File Name: Pier12EB_Ped_A2.rcp		www.bentley.com Phone: 1-800-778-4277	Checked	
			Date	

Line #	Bearing #	Dir	Load kips
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	-5.21
2	3	Y	-37.49
2	4	Y	-45.81
2	5	Y	-45.48
2	6	Y	-45.08
2	7	Y	-45.08
2	8	Y	-34.96
2	9	Y	-3.27
2	10	Y	0.00
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	-2.86
2	3	Y	-26.02
2	4	Y	-31.09
2	5	Y	-30.82
2	6	Y	-30.55
2	7	Y	-30.55
2	8	Y	-23.96
2	9	Y	-1.80
2	10	Y	0.00

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load
--------------------	--



Sheet # 34
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
File Name: Pier12EB_Ped_A2.rcp		www.bentley.com Phone: 1-800-778-4277	Checked	
			Date	

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
Total number of Possible Combination = 401576

Loadcase ID: LL15 Name:
Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	-3.98
1	3	Y	-36.25
1	4	Y	-45.80
1	5	Y	-42.94
1	6	Y	-40.18
1	7	Y	-40.18
1	8	Y	-40.38
1	9	Y	-12.62
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00
1	1	Y	0.00
1	2	Y	-2.15
1	3	Y	-24.88



Sheet #	35
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier12EB_Ped_A2.rcp	Checked	Date	

Line #	Bearing #	Dir	Load kips
1	4	Y	-30.98
1	5	Y	-29.13
1	6	Y	-27.29
1	7	Y	-27.29
1	8	Y	-26.71
1	9	Y	-8.59
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load
--------------------	--

Transverse Positioning

Number of loaded lanes = all combinations
 Live Load Positions = Constant Spacing
 Minimum Distance from Curb = 2.00 ft
 Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
 Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
 Total number of Possible Combination = 401576



Sheet #	36
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier12EB_Ped_A2.rcp	Checked	Date	

Loadcase ID: LL16 Name:

Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	-28.94
1	2	Y	-33.47
1	3	Y	-31.09
1	4	Y	-6.49
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	-23.81
2	2	Y	-24.39
2	3	Y	-22.60
2	4	Y	-4.16
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00
1	1	Y	-33.05
1	2	Y	-38.95
1	3	Y	-36.94
1	4	Y	-6.81
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	-36.15
2	2	Y	-38.39
2	3	Y	-36.04
2	4	Y	-5.57
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	0.00



Sheet #	37
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier12EB_Ped_A2.rcp	Checked		
		Date		

Line #	Bearing #	Dir	Load kips
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load
--------------------	--

Transverse Positioning

Number of loaded lanes = all combinations
 Live Load Positions = Constant Spacing
 Minimum Distance from Curb = 2.00 ft
 Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
 Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
 Total number of Possible Combination = 401576

Loadcase ID: LL17 Name:
 Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	-37.96



Sheet #	38
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier12EB_Ped_A2.rcp	Checked		
		Date		

Line #	Bearing #	Dir	Load kips
1	2	Y	-43.90
1	3	Y	-45.80
1	4	Y	-45.80
1	5	Y	-42.94
1	6	Y	-36.84
1	7	Y	-9.07
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00
1	1	Y	-25.27
1	2	Y	-29.79
1	3	Y	-30.98
1	4	Y	-30.98
1	5	Y	-29.13
1	6	Y	-25.43
1	7	Y	-5.44
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00

Auto generation details:



Sheet # 39

Job #

Program: LEAP® RC-PIER® V8i (SELECTseries 5)

SE Client Licenses

Designed KSM

Version: 12.01.00.57

Copyright © Bentley Systems, Inc. 2012

Date Sep/10/2013

www.bentley.com Phone: 1-800-778-4277

Checked

File Name: Pier12EB_Ped_A2.rcp

Date

Generated Live Load**Longitudinal Reaction: Simple Span Distribution**

Selected Vehicles:

Design Truck
Design Truck + Lane Load**Transverse Positioning**

Number of loaded lanes = all combinations

Live Load Positions = Constant Spacing

Minimum Distance from Curb = 2.00 ft

Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected

Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36

Total number of Possible Combination = 401576

Loadcase ID: LL18 Name:

Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	-3.03
1	3	Y	-27.63
1	4	Y	-34.92
1	5	Y	-28.84
1	6	Y	-5.56
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	-2.98
2	3	Y	-21.42
2	4	Y	-26.18
2	5	Y	-21.36

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 40

Job #

Program: LEAP® RC-PIER® V8i (SELECTseries 5)

SE Client Licenses

Designed KSM

Version: 12.01.00.57

Copyright © Bentley Systems, Inc. 2012

Date Sep/10/2013

www.bentley.com Phone: 1-800-778-4277

Checked

File Name: Pier12EB_Ped_A2.rcp

Date

Line #	Bearing #	Dir	Load kips
2	6	Y	-3.02
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00
1	1	Y	0.00
1	2	Y	-2.81
1	3	Y	-32.54
1	4	Y	-40.51
1	5	Y	-34.49
1	6	Y	-5.40
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	-3.74
2	3	Y	-34.02
2	4	Y	-40.65
2	5	Y	-33.94
2	6	Y	-3.79
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00

Auto generation details:**Generated Live Load****Longitudinal Reaction: Simple Span Distribution**

Selected Vehicles:

Design Truck
Design Truck + Lane Load**Transverse Positioning**

Number of loaded lanes = all combinations

Live Load Positions = Constant Spacing

Minimum Distance from Curb = 2.00 ft

Center to Center Spacing = 10.00 ft

Units: US (English)

Design Code: AASHTO LRFD



Sheet #	41
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp			Date

Generate Braking/Longitudinal Force = Selected
 Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
 Total number of Possible Combination = 401576

Loadcase ID: LL19 Name:
 Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	-2.54
1	7	Y	-23.71
1	8	Y	-30.79
1	9	Y	-9.62
1	10	Y	-6.88
1	11	Y	-26.45
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	-5.01
2	7	Y	-23.12
2	8	Y	-19.98
2	9	Y	-6.96
2	10	Y	-19.90
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	-2.43
1	7	Y	-28.58
1	8	Y	-34.93
1	9	Y	-11.23



Sheet #	42
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp			Date

Line #	Bearing #	Dir	Load kips
1	10	Y	-7.96
1	11	Y	-30.62
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	-7.07
2	7	Y	-36.67
2	8	Y	-31.34
2	9	Y	-10.24
2	10	Y	-30.83

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck
	Design Truck + Lane Load

Transverse Positioning

Number of loaded lanes = all combinations
 Live Load Positions = Constant Spacing
 Minimum Distance from Curb = 2.00 ft
 Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
 Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
 Total number of Possible Combination = 401576

Loadcase ID: LL20 Name:
 Multiplier = 1.000



Sheet #	43
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp			Date

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	-41.67
2	2	Y	-42.68
2	3	Y	-45.81
2	4	Y	-45.81
2	5	Y	-45.48
2	6	Y	-36.31
2	7	Y	-4.62
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	-27.64
2	2	Y	-29.36
2	3	Y	-31.09
2	4	Y	-31.09
2	5	Y	-30.82
2	6	Y	-25.14
2	7	Y	-2.51
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00

Units: US (English)

Design Code: AASHTO LRFD



Sheet #	44
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp			Date

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load
--------------------	--

Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
Total number of Possible Combination = 401576

Loadcase ID: LL21 Name:

Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	-2.56
1	7	Y	-23.73
1	8	Y	-30.77
1	9	Y	-28.86

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 45
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp		Date	

Line #	Bearing #	Dir	Load kips
1	10	Y	-14.07
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	-5.02
2	7	Y	-23.13
2	8	Y	-25.76
2	9	Y	-19.58
2	10	Y	-1.47
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	-2.44
1	7	Y	-28.60
1	8	Y	-35.69
1	9	Y	-31.91
1	10	Y	-16.94
1	11	Y	-0.16
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	-7.09
2	7	Y	-36.68
2	8	Y	-39.94
2	9	Y	-30.48
2	10	Y	-1.94

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load
--------------------	--



Sheet # 46
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp		Date	

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
Total number of Possible Combination = 401576

Loadcase ID: LL22 Name:
Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	-25.52
1	2	Y	-26.84
1	3	Y	-6.42
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	-37.36
2	2	Y	-33.60
2	3	Y	-7.46
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00
1	1	Y	-38.88
1	2	Y	-42.52
1	3	Y	-9.38



Sheet #	47
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM		
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013		
		www.bentley.com	Phone:	1-800-778-4277		
File Name:	Pier12EB_Ped_A2.rcp			Checked		
					Date	

Line #	Bearing #	Dir	Load kips
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	-42.53
2	2	Y	-40.76
2	3	Y	-7.80
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck
	Design Truck + Lane Load

Transverse Positioning

Number of loaded lanes = all combinations
 Live Load Positions = Constant Spacing
 Minimum Distance from Curb = 2.00 ft
 Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
 Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
 Total number of Possible Combination = 401576



Sheet #	48
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM		
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013		
		www.bentley.com	Phone:	1-800-778-4277		
File Name:	Pier12EB_Ped_A2.rcp			Checked		
					Date	

Loadcase ID: LL23 Name:
 Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	-54.49
2	2	Y	-55.82
2	3	Y	-51.73
2	4	Y	-9.52
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	-36.15
2	2	Y	-38.39
2	3	Y	-36.04
2	4	Y	-5.57
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	0.00



Sheet # 49

Job #

Program: LEAP® RC-PIER® V8i (SELECTseries 5)

SE Client Licenses

Designed KSM

Version: 12.01.00.57

Copyright © Bentley Systems, Inc. 2012

Date Sep/10/2013

www.bentley.com Phone: 1-800-778-4277

Checked

File Name: Pier12EB_Ped_A2.rcp

Date

Line #	Bearing #	Dir	Load kips
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00

Auto generation details:**Generated Live Load****Longitudinal Reaction: Simple Span Distribution**

Selected Vehicles:

Design Truck
Design Truck + Lane Load

Transverse Positioning

Number of loaded lanes = all combinations
 Live Load Positions = Constant Spacing
 Minimum Distance from Curb = 2.00 ft
 Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
 Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
 Total number of Possible Combination = 401576

Loadcase ID: LL24 Name:

Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	-49.64

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 50

Job #

Program: LEAP® RC-PIER® V8i (SELECTseries 5)

SE Client Licenses

Designed KSM

Version: 12.01.00.57

Copyright © Bentley Systems, Inc. 2012

Date Sep/10/2013

www.bentley.com Phone: 1-800-778-4277

Checked

File Name: Pier12EB_Ped_A2.rcp

Date

Line #	Bearing #	Dir	Load kips
1	2	Y	-57.41
1	3	Y	-53.33
1	4	Y	-11.13
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00
1	1	Y	-33.05
1	2	Y	-38.95
1	3	Y	-36.94
1	4	Y	-6.81
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00

Auto generation details:

Units: US (English)

Design Code: AASHTO LRFD



Sheet #	51
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp		Date	

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load
--------------------	--

Transverse Positioning

Number of loaded lanes = all combinations
 Live Load Positions = Constant Spacing
 Minimum Distance from Curb = 2.00 ft
 Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
 Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
 Total number of Possible Combination = 401576

Loadcase ID: LL25 Name:

Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	-7.28
1	11	Y	-27.99
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00



Sheet #	52
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp		Date	

Line #	Bearing #	Dir	Load kips
2	6	Y	0.00
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	-9.58
2	10	Y	-37.47
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	-11.24
1	11	Y	-43.23
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	-11.13
2	10	Y	-43.52

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load
--------------------	--

Transverse Positioning

Number of loaded lanes = all combinations
 Live Load Positions = Constant Spacing
 Minimum Distance from Curb = 2.00 ft
 Center to Center Spacing = 10.00 ft



Sheet #	53
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier12EB_Ped_A2.rcp	Checked		
		Date		

Generate Braking/Longitudinal Force = Selected
 Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
 Total number of Possible Combination = 401576

Loadcase ID: LL26 Name:
 Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	-38.86
1	10	Y	-42.28
1	11	Y	-53.38
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	-0.91
1	9	Y	-24.36



Sheet #	54
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier12EB_Ped_A2.rcp	Checked		
		Date		

Line #	Bearing #	Dir	Load kips
1	10	Y	-29.29
1	11	Y	-36.22
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck
	Design Truck + Lane Load

Transverse Positioning

Number of loaded lanes = all combinations
 Live Load Positions = Constant Spacing
 Minimum Distance from Curb = 2.00 ft
 Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
 Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
 Total number of Possible Combination = 401576

Loadcase ID: LL27 Name:
 Multiplier = 1.000



Sheet #	55
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp			Date

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	-3.03
1	3	Y	-27.63
1	4	Y	-30.30
1	5	Y	-5.70
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	-6.88
1	11	Y	-26.45
2	1	Y	0.00
2	2	Y	-2.98
2	3	Y	-21.42
2	4	Y	-22.01
2	5	Y	-3.57
2	6	Y	0.00
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	-5.09
2	10	Y	-19.90
1	1	Y	0.00
1	2	Y	-2.81
1	3	Y	-32.54
1	4	Y	-36.08
1	5	Y	-5.74
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	-7.96
1	11	Y	-30.62
2	1	Y	0.00
2	2	Y	-3.74
2	3	Y	-34.02
2	4	Y	-35.07
2	5	Y	-4.60
2	6	Y	0.00
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	-7.89
2	10	Y	-30.83



Sheet #	56
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp			Date

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load
--------------------	--

Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
Total number of Possible Combination = 401576

Loadcase ID: LL28 Name:

Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	-3.89
1	6	Y	-25.06
1	7	Y	-30.63
1	8	Y	-30.79
1	9	Y	-9.62



Sheet #	57
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp	Date		

Line #	Bearing #	Dir	Load kips
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	-4.63
2	6	Y	-22.73
2	7	Y	-25.76
2	8	Y	-19.98
2	9	Y	-1.87
2	10	Y	0.00
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	-3.61
1	6	Y	-30.29
1	7	Y	-35.69
1	8	Y	-34.93
1	9	Y	-11.23
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	-6.36
2	6	Y	-36.15
2	7	Y	-39.94
2	8	Y	-31.34
2	9	Y	-2.36
2	10	Y	0.00

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load
--------------------	--



Sheet #	58
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp	Date		

Number of loaded lanes = all combinations
 Live Load Positions = Constant Spacing
 Minimum Distance from Curb = 2.00 ft
 Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
 Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
 Total number of Possible Combination = 401576

Loadcase ID: LL29 Name:
 Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	0.00
2	8	Y	-15.60
2	9	Y	-61.42
2	10	Y	-57.54
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00



Sheet #	59
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp			Date

Line #	Bearing #	Dir	Load kips
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	0.00
2	8	Y	-10.16
2	9	Y	-42.38
2	10	Y	-38.55

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck
	Design Truck + Lane Load

Transverse Positioning

Number of loaded lanes = all combinations
 Live Load Positions = Constant Spacing
 Minimum Distance from Curb = 2.00 ft
 Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
 Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
 Total number of Possible Combination = 401576



Sheet #	60
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp			Date

Loadcase ID: LL30 Name:
 Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	-16.44
2	10	Y	-64.29
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	0.00



Sheet # 61
Job #

Program: LEAP® RC-PIER® V8i (SELECTseries 5) SE Client Licenses Designed KSM
Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 Date Sep/10/2013
www.bentley.com Phone: 1-800-778-4277 Checked
File Name: Pier12EB_Ped_A2.rcp Date

Line #	Bearing #	Dir	Load kips
2	8	Y	0.00
2	9	Y	-11.13
2	10	Y	-43.52

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:
Design Truck
Design Truck + Lane Load

Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
Total number of Possible Combination = 401576

Loadcase ID: LL31 Name:
Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00



Sheet # 62
Job #

Program: LEAP® RC-PIER® V8i (SELECTseries 5) SE Client Licenses Designed KSM
Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 Date Sep/10/2013
www.bentley.com Phone: 1-800-778-4277 Checked
File Name: Pier12EB_Ped_A2.rcp Date

Line #	Bearing #	Dir	Load kips
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	-16.66
1	11	Y	-64.06
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	-11.24
1	11	Y	-43.23
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00

Auto generation details:



Sheet #	63
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp			Date

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load
--------------------	--

Transverse Positioning

Number of loaded lanes = all combinations
 Live Load Positions = Constant Spacing
 Minimum Distance from Curb = 2.00 ft
 Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
 Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
 Total number of Possible Combination = 401576

Loadcase ID: LL32 Name:

Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	-38.86
1	10	Y	-42.28
1	11	Y	-53.38
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00



Sheet #	64
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp			Date

Line #	Bearing #	Dir	Load kips
2	6	Y	0.00
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	-0.91
1	9	Y	-24.36
1	10	Y	-29.29
1	11	Y	-36.22
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load
--------------------	--

Transverse Positioning

Number of loaded lanes = all combinations
 Live Load Positions = Constant Spacing
 Minimum Distance from Curb = 2.00 ft
 Center to Center Spacing = 10.00 ft



Sheet #	65
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp	Date		

Generate Braking/Longitudinal Force = Selected
 Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
 Total number of Possible Combination = 401576

Loadcase ID: LL33 Name:
 Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	-38.86
1	10	Y	-36.49
1	11	Y	-31.12
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	-5.99
2	10	Y	-23.41
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	-0.91
1	9	Y	-24.36



Sheet #	66
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp	Date		

Line #	Bearing #	Dir	Load kips
1	10	Y	-29.29
1	11	Y	-36.22
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	-9.28
2	10	Y	-36.27

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:
 Design Truck
 Design Truck + Lane Load

Transverse Positioning

Number of loaded lanes = all combinations
 Live Load Positions = Constant Spacing
 Minimum Distance from Curb = 2.00 ft
 Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
 Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
 Total number of Possible Combination = 401576

Loadcase ID: LL34 Name:
 Multiplier = 1.000



Sheet #	67
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp			Date

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	-0.91
1	8	Y	-16.88
1	9	Y	-21.63
1	10	Y	-15.70
1	11	Y	-19.82
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	-7.21
2	8	Y	-31.37
2	9	Y	-32.91
2	10	Y	-28.51
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	-1.49
1	8	Y	-26.66
1	9	Y	-31.91
1	10	Y	-24.90
1	11	Y	-30.78
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	-7.84
2	8	Y	-37.16
2	9	Y	-38.37
2	10	Y	-32.77

Units: US (English)

Design Code: AASHTO LRFD



Sheet #	68
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp			Date

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load
--------------------	--

Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
Total number of Possible Combination = 401576

Loadcase ID: LL35 Name:

Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 69
Job #

Program: LEAP® RC-PIER® V8i (SELECTseries 5) SE Client Licenses Designed KSM
Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 Date Sep/10/2013
www.bentley.com Phone: 1-800-778-4277 Checked
File Name: Pier12EB_Ped_A2.rcp Date

Line #	Bearing #	Dir	Load kips
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	-6.27
2	4	Y	-38.55
2	5	Y	-45.48
2	6	Y	-45.08
2	7	Y	-45.08
2	8	Y	-45.08
2	9	Y	-34.27
2	10	Y	-2.58
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	-3.54
2	4	Y	-26.84
2	5	Y	-30.82
2	6	Y	-30.55
2	7	Y	-30.55
2	8	Y	-30.55
2	9	Y	-23.31
2	10	Y	-1.48

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:
Design Truck
Design Truck + Lane Load



Sheet # 70
Job #

Program: LEAP® RC-PIER® V8i (SELECTseries 5) SE Client Licenses Designed KSM
Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 Date Sep/10/2013
www.bentley.com Phone: 1-800-778-4277 Checked
File Name: Pier12EB_Ped_A2.rcp Date

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
Total number of Possible Combination = 401576

Loadcase ID: LL36 Name:
Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	-1.91
1	7	Y	-17.77
1	8	Y	-23.07
1	9	Y	-7.21
1	10	Y	-5.16
1	11	Y	-19.82
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	-6.68
2	7	Y	-30.84
2	8	Y	-26.65
2	9	Y	-9.28
2	10	Y	-26.54
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00



Sheet #	71
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier12EB_Ped_A2.rcp	Checked		
		Date		

Line #	Bearing #	Dir	Load kips
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	-2.43
1	7	Y	-28.58
1	8	Y	-34.93
1	9	Y	-11.23
1	10	Y	-7.96
1	11	Y	-30.62
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	-7.07
2	7	Y	-36.67
2	8	Y	-31.34
2	9	Y	-10.24
2	10	Y	-30.83

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load
--------------------	--

Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
Total number of Possible Combination = 401576



Sheet #	72
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier12EB_Ped_A2.rcp	Checked		
		Date		

Loadcase ID: LL37 Name:
Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	-2.56
1	7	Y	-23.73
1	8	Y	-30.77
1	9	Y	-42.63
1	10	Y	-24.14
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	-5.02
2	7	Y	-23.13
2	8	Y	-19.96
2	9	Y	-1.86
2	10	Y	0.00
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	-2.44
1	7	Y	-28.60
1	8	Y	-35.69
1	9	Y	-31.91
1	10	Y	-16.94
1	11	Y	-0.16
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	-7.09
2	7	Y	-36.68



Sheet #	73
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier12EB_Ped_A2.rcp	Checked	Date	

Line #	Bearing #	Dir	Load kips
2	8	Y	-31.31
2	9	Y	-2.34
2	10	Y	0.00

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load
--------------------	--

Transverse Positioning

Number of loaded lanes = all combinations
 Live Load Positions = Constant Spacing
 Minimum Distance from Curb = 2.00 ft
 Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
 Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
 Total number of Possible Combination = 401576

Loadcase ID: LL38 Name:
 Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00



Sheet #	74
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier12EB_Ped_A2.rcp	Checked	Date	

Line #	Bearing #	Dir	Load kips
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	-5.23
2	3	Y	-37.51
2	4	Y	-45.81
2	5	Y	-45.48
2	6	Y	-45.08
2	7	Y	-45.08
2	8	Y	-34.94
2	9	Y	-3.25
2	10	Y	0.00
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	-2.87
2	3	Y	-26.03
2	4	Y	-31.09
2	5	Y	-30.82
2	6	Y	-30.55
2	7	Y	-30.55
2	8	Y	-23.94
2	9	Y	-1.79
2	10	Y	0.00

Auto generation details:



Sheet #	75
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp			Date

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load
--------------------	--

Transverse Positioning

Number of loaded lanes = all combinations
 Live Load Positions = Constant Spacing
 Minimum Distance from Curb = 2.00 ft
 Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
 Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
 Total number of Possible Combination = 401576

Loadcase ID: LL39 Name:

Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	-5.04
1	4	Y	-37.31
1	5	Y	-42.94
1	6	Y	-40.18
1	7	Y	-40.18
1	8	Y	-40.36
1	9	Y	-27.32
1	10	Y	-10.76
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00



Sheet #	76
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp			Date

Line #	Bearing #	Dir	Load kips
2	6	Y	0.00
2	7	Y	0.00
2	8	Y	-4.43
2	9	Y	-13.55
2	10	Y	-1.13
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	-2.75
1	4	Y	-25.79
1	5	Y	-29.13
1	6	Y	-27.29
1	7	Y	-27.29
1	8	Y	-27.29
1	9	Y	-24.40
1	10	Y	-12.95
1	11	Y	-0.13
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	0.00
2	8	Y	-6.60
2	9	Y	-21.52
2	10	Y	-1.48

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load
--------------------	--

Transverse Positioning

Number of loaded lanes = all combinations
 Live Load Positions = Constant Spacing
 Minimum Distance from Curb = 2.00 ft
 Center to Center Spacing = 10.00 ft



Sheet #	77
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp			Date

Generate Braking/Longitudinal Force = Selected
 Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
 Total number of Possible Combination = 401576

Loadcase ID: LL40 Name:
 Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	-9.71
1	11	Y	-37.34
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	-7.19
2	10	Y	-28.09
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00



Sheet #	78
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp			Date

Line #	Bearing #	Dir	Load kips
1	10	Y	-11.24
1	11	Y	-43.23
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	-11.13
2	10	Y	-43.52

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load
--------------------	--

Transverse Positioning

Number of loaded lanes = all combinations
 Live Load Positions = Constant Spacing
 Minimum Distance from Curb = 2.00 ft
 Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
 Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
 Total number of Possible Combination = 401576

Loadcase ID: LL41 Name:
 Multiplier = 1.000



Sheet #	79
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp			Date

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	-26.70
1	2	Y	-6.63
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	-1.21
1	8	Y	-22.52
1	9	Y	-42.63
1	10	Y	-24.14
1	11	Y	0.00
2	1	Y	-21.42
2	2	Y	-3.56
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	-5.41
2	8	Y	-17.72
2	9	Y	-1.86
2	10	Y	0.00
1	1	Y	-30.91
1	2	Y	-7.67
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	-1.49
1	8	Y	-26.66
1	9	Y	-31.91
1	10	Y	-16.94
1	11	Y	-0.16
2	1	Y	-33.19
2	2	Y	-5.52
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	-7.84
2	8	Y	-28.53
2	9	Y	-2.34
2	10	Y	0.00

Units: US (English)

Design Code: AASHTO LRFD



Sheet #	80
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp			Date

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load
--------------------	--

Transverse Positioning

Number of loaded lanes = all combinations
 Live Load Positions = Constant Spacing
 Minimum Distance from Curb = 2.00 ft
 Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
 Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
 Total number of Possible Combination = 401576

Loadcase ID: LL42 Name:

Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	-3.84
1	4	Y	-28.44
1	5	Y	-28.83
1	6	Y	-5.55
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	-33.04

Units: US (English)

Design Code: AASHTO LRFD



Sheet #	81
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp	Date		

Line #	Bearing #	Dir	Load kips
1	10	Y	-24.14
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	-3.59
2	4	Y	-22.03
2	5	Y	-21.35
2	6	Y	-3.01
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	-3.59
1	4	Y	-33.72
1	5	Y	-34.47
1	6	Y	-5.38
1	7	Y	0.00
1	8	Y	-0.77
1	9	Y	-20.71
1	10	Y	-16.94
1	11	Y	-0.16
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	-4.63
2	4	Y	-35.10
2	5	Y	-33.92
2	6	Y	-3.78
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load
--------------------	--



Sheet #	82
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp	Date		

Number of loaded lanes = all combinations
 Live Load Positions = Constant Spacing
 Minimum Distance from Curb = 2.00 ft
 Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
 Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
 Total number of Possible Combination = 401576

Loadcase ID: LL43 Name:
 Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	-2.94
1	2	Y	-35.21
1	3	Y	-45.80
1	4	Y	-45.80
1	5	Y	-42.94
1	6	Y	-40.18
1	7	Y	-38.61
1	8	Y	-10.84
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00
1	1	Y	-1.64
1	2	Y	-23.92
1	3	Y	-30.98



Sheet #	83
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp			Date

Line #	Bearing #	Dir	Load kips
1	4	Y	-30.98
1	5	Y	-29.13
1	6	Y	-27.29
1	7	Y	-26.16
1	8	Y	-6.92
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck
	Design Truck + Lane Load

Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
Total number of Possible Combination = 401576



Sheet #	84
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp			Date

Loadcase ID: LL44 Name:

Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	-1.92
1	7	Y	-17.78
1	8	Y	-23.06
1	9	Y	-21.63
1	10	Y	-10.55
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	-6.70
2	7	Y	-30.85
2	8	Y	-34.36
2	9	Y	-26.12
2	10	Y	-1.96
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	-2.44
1	7	Y	-28.60
1	8	Y	-35.69
1	9	Y	-31.91
1	10	Y	-16.94
1	11	Y	-0.16
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	-7.09
2	7	Y	-36.68



Sheet #	85
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp	Date		

Line #	Bearing #	Dir	Load kips
2	8	Y	-39.94
2	9	Y	-30.48
2	10	Y	-1.94

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load
--------------------	--

Transverse Positioning

Number of loaded lanes = all combinations
 Live Load Positions = Constant Spacing
 Minimum Distance from Curb = 2.00 ft
 Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
 Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
 Total number of Possible Combination = 401576

Loadcase ID: LL45 Name:

Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00



Sheet #	86
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp	Date		

Line #	Bearing #	Dir	Load kips
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	-2.56
1	7	Y	-24.59
1	8	Y	-46.88
1	9	Y	-16.47
1	10	Y	-6.88
1	11	Y	-26.45
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	-5.02
2	7	Y	-17.72
2	8	Y	-2.24
2	9	Y	-5.09
2	10	Y	-19.90
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	-2.44
1	7	Y	-28.60
1	8	Y	-34.92
1	9	Y	-11.20
1	10	Y	-7.96
1	11	Y	-30.62
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	-7.09
2	7	Y	-28.84
2	8	Y	-2.78
2	9	Y	-7.89
2	10	Y	-30.83

Auto generation details:



Sheet #	87
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp			Date

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load
--------------------	--

Transverse Positioning

Number of loaded lanes = all combinations
 Live Load Positions = Constant Spacing
 Minimum Distance from Curb = 2.00 ft
 Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
 Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
 Total number of Possible Combination = 401576

Loadcase ID: LL46 Name:

Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	-2.67
1	4	Y	-17.84
1	5	Y	-4.27
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	-14.43
1	10	Y	-10.55
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	-4.77
2	4	Y	-23.81
2	5	Y	-4.76



Sheet #	88
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp			Date

Line #	Bearing #	Dir	Load kips
2	6	Y	0.00
2	7	Y	-12.38
2	8	Y	-48.29
2	9	Y	-27.89
2	10	Y	-1.96
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	-3.58
1	4	Y	-29.27
1	5	Y	-5.74
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	-0.77
1	9	Y	-20.71
1	10	Y	-16.94
1	11	Y	-0.16
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	-4.61
2	4	Y	-29.50
2	5	Y	-4.60
2	6	Y	0.00
2	7	Y	-7.84
2	8	Y	-37.16
2	9	Y	-30.48
2	10	Y	-1.94

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load
--------------------	--

Transverse Positioning

Number of loaded lanes = all combinations
 Live Load Positions = Constant Spacing
 Minimum Distance from Curb = 2.00 ft
 Center to Center Spacing = 10.00 ft



Sheet #	89
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp	Date		

Generate Braking/Longitudinal Force = Selected
 Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
 Total number of Possible Combination = 401576

Loadcase ID: LL47 Name:
 Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	-0.91
1	8	Y	-16.88
1	9	Y	-7.19
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	-7.21
2	8	Y	-36.90
2	9	Y	-54.68
2	10	Y	-48.91
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	-1.49
1	8	Y	-25.89
1	9	Y	-11.20



Sheet #	90
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp	Date		

Line #	Bearing #	Dir	Load kips
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	-7.84
2	8	Y	-37.16
2	9	Y	-38.37
2	10	Y	-32.77

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:
 Design Truck
 Design Truck + Lane Load

Transverse Positioning

Number of loaded lanes = all combinations
 Live Load Positions = Constant Spacing
 Minimum Distance from Curb = 2.00 ft
 Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
 Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
 Total number of Possible Combination = 401576

Loadcase ID: LL48 Name:
 Multiplier = 1.000



Sheet #	91
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp		Date	

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	-6.07
1	11	Y	-23.32
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	-13.53
2	7	Y	-47.72
2	8	Y	-6.04
2	9	Y	-7.99
2	10	Y	-31.23
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	-9.37
1	11	Y	-36.02
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	-8.34
2	7	Y	-33.93
2	8	Y	-3.27
2	9	Y	-9.28
2	10	Y	-36.27

Units: US (English)

Design Code: AASHTO LRFD



Sheet #	92
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp		Date	

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load
--------------------	--

Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
Total number of Possible Combination = 401576

Loadcase ID: LL49 Name:

Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	-2.08
1	8	Y	-38.63
1	9	Y	-49.50

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 93
Job #

Program: LEAP® RC-PIER® V8i (SELECTseries 5) SE Client Licenses Designed KSM
Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 Date Sep/10/2013
www.bentley.com Phone: 1-800-778-4277 Checked
File Name: Pier12EB_Ped_A2.rcp Date

Line #	Bearing #	Dir	Load kips
1	10	Y	-35.94
1	11	Y	-45.37
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	-1.49
1	8	Y	-26.66
1	9	Y	-31.91
1	10	Y	-24.90
1	11	Y	-30.78
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:
Design Truck
Design Truck + Lane Load



Sheet # 94
Job #

Program: LEAP® RC-PIER® V8i (SELECTseries 5) SE Client Licenses Designed KSM
Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 Date Sep/10/2013
www.bentley.com Phone: 1-800-778-4277 Checked
File Name: Pier12EB_Ped_A2.rcp Date

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
Total number of Possible Combination = 401576

Loadcase ID: LL50 Name:
Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	-1.42
1	8	Y	-26.49
1	9	Y	-33.95
1	10	Y	-16.55
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	-6.36
2	8	Y	-27.66
2	9	Y	-23.03
2	10	Y	-1.73
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00



Sheet #	95
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp			Date

Line #	Bearing #	Dir	Load kips
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	-1.75
1	8	Y	-31.37
1	9	Y	-37.54
1	10	Y	-19.93
1	11	Y	-0.19
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	-9.23
2	8	Y	-43.72
2	9	Y	-35.86
2	10	Y	-2.28

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:

Design Truck
Design Truck + Lane Load

Transverse Positioning

Number of loaded lanes = all combinations
 Live Load Positions = Constant Spacing
 Minimum Distance from Curb = 2.00 ft
 Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
 Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
 Total number of Possible Combination = 401576



Sheet #	96
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp			Date

Loadcase ID: LL51 Name:
 Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	-12.38
2	8	Y	-53.82
2	9	Y	-56.46
2	10	Y	-48.91
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	-7.84



Sheet #	97
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier12EB_Ped_A2.rcp	Checked	Date	

Line #	Bearing #	Dir	Load kips
2	8	Y	-37.16
2	9	Y	-38.37
2	10	Y	-32.77

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load
--------------------	--

Transverse Positioning

Number of loaded lanes = all combinations
 Live Load Positions = Constant Spacing
 Minimum Distance from Curb = 2.00 ft
 Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
 Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
 Total number of Possible Combination = 401576

Loadcase ID: LL52 Name:

Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00



Sheet #	98
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier12EB_Ped_A2.rcp	Checked	Date	

Line #	Bearing #	Dir	Load kips
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	-2.26
1	7	Y	-20.92
1	8	Y	-27.13
1	9	Y	-8.46
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	-7.88
2	7	Y	-36.30
2	8	Y	-31.33
2	9	Y	-2.91
2	10	Y	0.00
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	-2.87
1	7	Y	-33.65
1	8	Y	-41.08
1	9	Y	-13.18
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	-8.34
2	7	Y	-43.16
2	8	Y	-36.84
2	9	Y	-2.76
2	10	Y	0.00

Auto generation details:



Sheet #	99
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp		Date	

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load
--------------------	--

Transverse Positioning

Number of loaded lanes = all combinations
 Live Load Positions = Constant Spacing
 Minimum Distance from Curb = 2.00 ft
 Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
 Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
 Total number of Possible Combination = 401576

Loadcase ID: LL53 Name:

Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	-1.05
1	8	Y	-19.86
1	9	Y	-8.48
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00



Sheet #	100
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp		Date	

Line #	Bearing #	Dir	Load kips
2	6	Y	-13.49
2	7	Y	-56.18
2	8	Y	-33.88
2	9	Y	-2.93
2	10	Y	0.00
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	-1.74
1	8	Y	-30.44
1	9	Y	-13.21
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	-8.32
2	7	Y	-43.14
2	8	Y	-36.87
2	9	Y	-2.77
2	10	Y	0.00

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load
--------------------	--

Transverse Positioning

Number of loaded lanes = all combinations
 Live Load Positions = Constant Spacing
 Minimum Distance from Curb = 2.00 ft
 Center to Center Spacing = 10.00 ft



Sheet #	101
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp	Date		

Generate Braking/Longitudinal Force = Selected
 Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
 Total number of Possible Combination = 401576

Loadcase ID: LL54 Name:
 Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	-11.47
2	7	Y	-52.91
2	8	Y	-58.95
2	9	Y	-44.84
2	10	Y	-3.40
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00



Sheet #	102
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp	Date		

Line #	Bearing #	Dir	Load kips
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	-7.07
2	7	Y	-36.67
2	8	Y	-39.94
2	9	Y	-30.51
2	10	Y	-1.95

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:
 Design Truck
 Design Truck + Lane Load

Transverse Positioning

Number of loaded lanes = all combinations
 Live Load Positions = Constant Spacing
 Minimum Distance from Curb = 2.00 ft
 Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
 Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
 Total number of Possible Combination = 401576

Loadcase ID: LL55 Name:
 Multiplier = 1.000



Sheet #	103
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp			Date

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	-4.36
1	7	Y	-40.67
1	8	Y	-52.81
1	9	Y	-49.45
1	10	Y	-24.22
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	-2.43
1	7	Y	-28.58
1	8	Y	-35.69
1	9	Y	-31.91
1	10	Y	-16.97
1	11	Y	-0.17
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00

Units: US (English)

Design Code: AASHTO LRFD



Sheet #	104
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp			Date

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load
--------------------	--

Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
Total number of Possible Combination = 401576

Loadcase ID: LL56 Name:

Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	-3.01
1	7	Y	-27.92
1	8	Y	-36.20
1	9	Y	-11.29

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 105
Job #

Program: LEAP® RC-PIER® V8i (SELECTseries 5) SE Client Licenses Designed KSM
Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 Date Sep/10/2013
www.bentley.com Phone: 1-800-778-4277 Checked
File Name: Pier12EB_Ped_A2.rcp Date

Line #	Bearing #	Dir	Load kips
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	-5.91
2	7	Y	-27.21
2	8	Y	-23.49
2	9	Y	-2.19
2	10	Y	0.00
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	-2.87
1	7	Y	-33.65
1	8	Y	-41.08
1	9	Y	-13.18
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	-8.34
2	7	Y	-43.16
2	8	Y	-36.84
2	9	Y	-2.76
2	10	Y	0.00

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:

Design Truck
Design Truck + Lane Load



Sheet # 106
Job #

Program: LEAP® RC-PIER® V8i (SELECTseries 5) SE Client Licenses Designed KSM
Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 Date Sep/10/2013
www.bentley.com Phone: 1-800-778-4277 Checked
File Name: Pier12EB_Ped_A2.rcp Date

Number of loaded lanes = all combinations
 Live Load Positions = Constant Spacing
 Minimum Distance from Curb = 2.00 ft
 Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
 Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
 Total number of Possible Combination = 401576

Loadcase ID: LL57 Name:
 Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	-2.32
1	3	Y	-21.13
1	4	Y	-26.70
1	5	Y	-22.05
1	6	Y	-6.21
1	7	Y	-18.15
1	8	Y	-23.53
1	9	Y	-22.07
1	10	Y	-10.76
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	-2.28
2	3	Y	-16.38
2	4	Y	-20.02
2	5	Y	-16.34
2	6	Y	-6.15
2	7	Y	-17.69
2	8	Y	-19.70
2	9	Y	-14.97
2	10	Y	-1.13
1	1	Y	0.00
1	2	Y	-2.15
1	3	Y	-24.88



Sheet #	107
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
File Name:		www.bentley.com	Phone:	1-800-778-4277
File Name:		Pier12EB_Ped_A2.rcp	Checked	
File Name:		Pier12EB_Ped_A2.rcp	Date	

Line #	Bearing #	Dir	Load kips
1	4	Y	-30.98
1	5	Y	-26.37
1	6	Y	-6.00
1	7	Y	-21.87
1	8	Y	-27.29
1	9	Y	-24.40
1	10	Y	-12.95
1	11	Y	-0.13
2	1	Y	0.00
2	2	Y	-2.86
2	3	Y	-26.02
2	4	Y	-31.09
2	5	Y	-25.95
2	6	Y	-8.32
2	7	Y	-28.05
2	8	Y	-30.55
2	9	Y	-23.31
2	10	Y	-1.48

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck
	Design Truck + Lane Load

Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
Total number of Possible Combination = 401576



Sheet #	108
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
File Name:		www.bentley.com	Phone:	1-800-778-4277
File Name:		Pier12EB_Ped_A2.rcp	Checked	
File Name:		Pier12EB_Ped_A2.rcp	Date	

Loadcase ID: LL58 Name:

Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	-1.92
1	7	Y	-17.78
1	8	Y	-23.06
1	9	Y	-7.19
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	-10.62
2	6	Y	-47.26
2	7	Y	-36.87
2	8	Y	-26.63
2	9	Y	-2.48
2	10	Y	0.00
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	-2.44
1	7	Y	-28.60
1	8	Y	-34.92
1	9	Y	-11.20
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	-6.38
2	6	Y	-36.17
2	7	Y	-39.94



Sheet # 109

Job #

Program: LEAP® RC-PIER® V8i (SELECTseries 5)

SE Client Licenses

Designed KSM

Version: 12.01.00.57

Copyright © Bentley Systems, Inc. 2012

Date Sep/10/2013

www.bentley.com Phone: 1-800-778-4277

Checked

File Name: Pier12EB_Ped_A2.rcp

Date

Line #	Bearing #	Dir	Load kips
2	8	Y	-31.31
2	9	Y	-2.34
2	10	Y	0.00

Auto generation details:**Generated Live Load****Longitudinal Reaction: Simple Span Distribution**

Selected Vehicles:

Design Truck
Design Truck + Lane Load

Transverse Positioning

Number of loaded lanes = all combinations
 Live Load Positions = Constant Spacing
 Minimum Distance from Curb = 2.00 ft
 Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
Total number of Possible Combination = 401576

Loadcase ID: LL59 Name:

Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 110

Job #

Program: LEAP® RC-PIER® V8i (SELECTseries 5)

SE Client Licenses

Designed KSM

Version: 12.01.00.57

Copyright © Bentley Systems, Inc. 2012

Date Sep/10/2013

www.bentley.com Phone: 1-800-778-4277

Checked

File Name: Pier12EB_Ped_A2.rcp

Date

Line #	Bearing #	Dir	Load kips
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	-2.66
1	5	Y	-13.27
1	6	Y	-3.18
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	-4.26
2	5	Y	-26.27
2	6	Y	-42.88
2	7	Y	-45.08
2	8	Y	-45.08
2	9	Y	-43.17
2	10	Y	-37.40
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	-3.40
1	5	Y	-21.99
1	6	Y	-4.11
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	-4.28
2	5	Y	-27.31
2	6	Y	-30.55
2	7	Y	-30.55
2	8	Y	-30.55
2	9	Y	-29.34
2	10	Y	-25.06

Auto generation details:

Units: US (English)

Design Code: AASHTO LRFD



Sheet #	111
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp			Date

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load
--------------------	--

Transverse Positioning

Number of loaded lanes = all combinations
 Live Load Positions = Constant Spacing
 Minimum Distance from Curb = 2.00 ft
 Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
 Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
 Total number of Possible Combination = 401576

Loadcase ID: LL60 Name:

Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	-3.83
1	4	Y	-28.43
1	5	Y	-35.52
1	6	Y	-44.19
1	7	Y	-11.86
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	-3.57
2	4	Y	-22.02
2	5	Y	-21.36



Sheet #	112
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp			Date

Line #	Bearing #	Dir	Load kips
2	6	Y	-3.02
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	-3.58
1	4	Y	-33.70
1	5	Y	-38.10
1	6	Y	-33.26
1	7	Y	-7.11
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	-4.61
2	4	Y	-35.08
2	5	Y	-33.94
2	6	Y	-3.79
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load
--------------------	--

Transverse Positioning

Number of loaded lanes = all combinations
 Live Load Positions = Constant Spacing
 Minimum Distance from Curb = 2.00 ft
 Center to Center Spacing = 10.00 ft



Sheet #	113
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp			Date

Generate Braking/Longitudinal Force = Selected
 Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
 Total number of Possible Combination = 401576

Loadcase ID: LL61 Name:
 Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	-3.94
1	11	Y	-15.16
2	1	Y	-41.67
2	2	Y	-42.68
2	3	Y	-45.81
2	4	Y	-45.81
2	5	Y	-37.39
2	6	Y	-5.29
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	-5.19
2	10	Y	-20.30
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00



Sheet #	114
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp			Date

Line #	Bearing #	Dir	Load kips
1	10	Y	-6.09
1	11	Y	-23.41
2	1	Y	-27.64
2	2	Y	-29.36
2	3	Y	-31.09
2	4	Y	-31.09
2	5	Y	-25.95
2	6	Y	-2.90
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	-6.03
2	10	Y	-23.58

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load
--------------------	--

Transverse Positioning

Number of loaded lanes = all combinations
 Live Load Positions = Constant Spacing
 Minimum Distance from Curb = 2.00 ft
 Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
 Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
 Total number of Possible Combination = 401576

Loadcase ID: LL62 Name:
 Multiplier = 1.000



Sheet #	115
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp			Date

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	-1.74
1	3	Y	-15.84
1	4	Y	-20.01
1	5	Y	-18.76
1	6	Y	-17.55
1	7	Y	-17.55
1	8	Y	-17.64
1	9	Y	-5.51
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	-3.04
2	3	Y	-21.85
2	4	Y	-26.70
2	5	Y	-26.51
2	6	Y	-26.27
2	7	Y	-26.27
2	8	Y	-20.38
2	9	Y	-1.91
2	10	Y	0.00
1	1	Y	0.00
1	2	Y	-2.15
1	3	Y	-24.88
1	4	Y	-30.98
1	5	Y	-29.13
1	6	Y	-27.29
1	7	Y	-27.29
1	8	Y	-26.71
1	9	Y	-8.59
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	-2.86
2	3	Y	-26.02
2	4	Y	-31.09
2	5	Y	-30.82
2	6	Y	-30.55
2	7	Y	-30.55
2	8	Y	-23.96
2	9	Y	-1.80
2	10	Y	0.00

Units: US (English)

Design Code: AASHTO LRFD



Sheet #	116
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp			Date

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load
--------------------	--

Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
Total number of Possible Combination = 401576

Loadcase ID: LL63 Name:

Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	-34.05
1	2	Y	-35.81
1	3	Y	-8.57
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00

Units: US (English)

Design Code: AASHTO LRFD



Sheet #	117
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier12EB_Ped_A2.rcp	Checked		
		Date		

Line #	Bearing #	Dir	Load kips
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	-28.01
2	2	Y	-25.19
2	3	Y	-5.60
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00
1	1	Y	-38.88
1	2	Y	-42.52
1	3	Y	-9.38
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	-42.53
2	2	Y	-40.76
2	3	Y	-7.80
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck
	Design Truck + Lane Load



Sheet #	118
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier12EB_Ped_A2.rcp	Checked		
		Date		

Number of loaded lanes = all combinations
 Live Load Positions = Constant Spacing
 Minimum Distance from Curb = 2.00 ft
 Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
 Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
 Total number of Possible Combination = 401576

Loadcase ID: LL64 Name:
 Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	-37.69
1	2	Y	-9.36
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	-30.25
2	2	Y	-5.03
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00
1	1	Y	-43.63
1	2	Y	-10.83
1	3	Y	0.00



Sheet # 119
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp			Date

Line #	Bearing #	Dir	Load kips
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	-46.86
2	2	Y	-7.79
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load
--------------------	--

Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
Total number of Possible Combination = 401576



Sheet # 120
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp			Date

Loadcase ID: LL65 Name:
Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	-1.74
1	3	Y	-15.84
1	4	Y	-20.01
1	5	Y	-16.53
1	6	Y	-4.65
1	7	Y	-13.59
1	8	Y	-17.64
1	9	Y	-5.51
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	-3.04
2	3	Y	-21.85
2	4	Y	-26.70
2	5	Y	-29.89
2	6	Y	-39.21
2	7	Y	-28.20
2	8	Y	-20.38
2	9	Y	-1.91
2	10	Y	0.00
1	1	Y	0.00
1	2	Y	-2.15
1	3	Y	-24.88
1	4	Y	-30.98
1	5	Y	-26.37
1	6	Y	-5.99
1	7	Y	-21.85
1	8	Y	-26.71
1	9	Y	-8.59
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	-2.86
2	3	Y	-26.02
2	4	Y	-31.09
2	5	Y	-30.82
2	6	Y	-30.55
2	7	Y	-30.55



Sheet #	121
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp	Date		

Line #	Bearing #	Dir	Load kips
2	8	Y	-23.96
2	9	Y	-1.80
2	10	Y	0.00

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load
--------------------	--

Transverse Positioning

Number of loaded lanes = all combinations
 Live Load Positions = Constant Spacing
 Minimum Distance from Curb = 2.00 ft
 Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
 Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
 Total number of Possible Combination = 401576

Loadcase ID: LL66 Name:

Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00



Sheet #	122
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp	Date		

Line #	Bearing #	Dir	Load kips
1	2	Y	0.00
1	3	Y	-3.37
1	4	Y	-25.07
1	5	Y	-25.43
1	6	Y	-4.91
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	-5.61
2	4	Y	-34.55
2	5	Y	-33.52
2	6	Y	-4.74
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	-4.21
1	4	Y	-39.65
1	5	Y	-40.57
1	6	Y	-6.35
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	-5.43
2	4	Y	-41.27
2	5	Y	-39.93
2	6	Y	-4.46
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00

Auto generation details:



Sheet #	123
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp	Date		

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load
--------------------	--

Transverse Positioning

Number of loaded lanes = all combinations
 Live Load Positions = Constant Spacing
 Minimum Distance from Curb = 2.00 ft
 Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
 Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
 Total number of Possible Combination = 401576

Loadcase ID: LL67 Name:

Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	-2.23
1	6	Y	-12.91
1	7	Y	-3.96
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	-41.67
2	2	Y	-42.68
2	3	Y	-45.81
2	4	Y	-45.81
2	5	Y	-42.10



Sheet #	124
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp	Date		

Line #	Bearing #	Dir	Load kips
2	6	Y	-23.37
2	7	Y	-2.69
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	-2.76
1	6	Y	-21.31
1	7	Y	-5.44
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	-27.64
2	2	Y	-29.36
2	3	Y	-31.09
2	4	Y	-31.09
2	5	Y	-30.82
2	6	Y	-25.14
2	7	Y	-2.51
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load
--------------------	--

Transverse Positioning

Number of loaded lanes = all combinations
 Live Load Positions = Constant Spacing
 Minimum Distance from Curb = 2.00 ft
 Center to Center Spacing = 10.00 ft



Sheet #	125
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp			Date

Generate Braking/Longitudinal Force = Selected
 Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
 Total number of Possible Combination = 401576

Loadcase ID: LL68 Name:
 Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	-37.96
1	2	Y	-43.90
1	3	Y	-45.80
1	4	Y	-45.80
1	5	Y	-37.83
1	6	Y	-7.30
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	-5.26
1	11	Y	-20.23
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	-3.89
2	10	Y	-15.22
1	1	Y	-25.27
1	2	Y	-29.79
1	3	Y	-30.98
1	4	Y	-30.98
1	5	Y	-26.37
1	6	Y	-4.13
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00



Sheet #	126
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp			Date

Line #	Bearing #	Dir	Load kips
1	10	Y	-6.09
1	11	Y	-23.41
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	-6.03
2	10	Y	-23.58

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load
--------------------	--

Transverse Positioning

Number of loaded lanes = all combinations
 Live Load Positions = Constant Spacing
 Minimum Distance from Curb = 2.00 ft
 Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
 Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
 Total number of Possible Combination = 401576

Loadcase ID: LL69 Name:
 Multiplier = 1.000



Sheet #	127
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp		Date	

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	-2.33
1	3	Y	-21.14
1	4	Y	-26.70
1	5	Y	-22.04
1	6	Y	-6.20
1	7	Y	-18.15
1	8	Y	-23.53
1	9	Y	-22.07
1	10	Y	-10.76
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	-2.29
2	3	Y	-16.39
2	4	Y	-20.02
2	5	Y	-16.33
2	6	Y	-6.14
2	7	Y	-17.69
2	8	Y	-19.70
2	9	Y	-14.97
2	10	Y	-1.13
1	1	Y	0.00
1	2	Y	-2.16
1	3	Y	-24.90
1	4	Y	-30.98
1	5	Y	-26.36
1	6	Y	-5.98
1	7	Y	-21.87
1	8	Y	-27.29
1	9	Y	-24.40
1	10	Y	-12.95
1	11	Y	-0.13
2	1	Y	0.00
2	2	Y	-2.87
2	3	Y	-26.03
2	4	Y	-31.09
2	5	Y	-25.94
2	6	Y	-8.31
2	7	Y	-28.05
2	8	Y	-30.55
2	9	Y	-23.31
2	10	Y	-1.48

Units: US (English)

Design Code: AASHTO LRFD



Sheet #	128
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp		Date	

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load
--------------------	--

Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
Total number of Possible Combination = 401576

Loadcase ID: LL70 Name:

Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	-3.03
1	3	Y	-27.63
1	4	Y	-38.22
1	5	Y	-45.40
1	6	Y	-9.54
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00

Units: US (English)

Design Code: AASHTO LRFD



Sheet #	129
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp		Date	

Line #	Bearing #	Dir	Load kips
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	-2.98
2	3	Y	-21.42
2	4	Y	-22.01
2	5	Y	-3.57
2	6	Y	0.00
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00
1	1	Y	0.00
1	2	Y	-2.81
1	3	Y	-32.54
1	4	Y	-40.51
1	5	Y	-34.49
1	6	Y	-5.40
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	-3.74
2	3	Y	-34.02
2	4	Y	-35.07
2	5	Y	-4.60
2	6	Y	0.00
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck
	Design Truck + Lane Load



Sheet #	130
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp		Date	

Number of loaded lanes = all combinations
 Live Load Positions = Constant Spacing
 Minimum Distance from Curb = 2.00 ft
 Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
 Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
 Total number of Possible Combination = 401576

Loadcase ID: LL71 Name:
 Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	-5.48
2	2	Y	-47.69
2	3	Y	-59.91
2	4	Y	-50.34
2	5	Y	-8.13
2	6	Y	0.00
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00



Sheet #	131
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM	
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013	
		www.bentley.com Phone: 1-800-778-4277	Checked		
File Name:	Pier12EB_Ped_A2.rcp			Date	

Line #	Bearing #	Dir	Load kips
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	-2.97
2	2	Y	-32.89
2	3	Y	-40.65
2	4	Y	-35.05
2	5	Y	-4.58
2	6	Y	0.00
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck
	Design Truck + Lane Load

Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
Total number of Possible Combination = 401576



Sheet #	132
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM	
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013	
		www.bentley.com Phone: 1-800-778-4277	Checked		
File Name:	Pier12EB_Ped_A2.rcp			Date	

Loadcase ID: LL72 Name:

Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	-37.96
1	2	Y	-43.90
1	3	Y	-45.80
1	4	Y	-45.80
1	5	Y	-40.81
1	6	Y	-24.52
1	7	Y	-5.29
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	-3.54
2	6	Y	-13.55
2	7	Y	-2.02
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00
1	1	Y	-25.27
1	2	Y	-29.79
1	3	Y	-30.98
1	4	Y	-30.98
1	5	Y	-29.13
1	6	Y	-25.43
1	7	Y	-5.44
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	-4.86
2	6	Y	-22.24
2	7	Y	-2.51



Sheet # 133
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp		Date	

Line #	Bearing #	Dir	Load kips
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load
--------------------	--

Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
Total number of Possible Combination = 401576

Loadcase ID: LL73 Name:

Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00



Sheet # 134
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp		Date	

Line #	Bearing #	Dir	Load kips
1	2	Y	0.00
1	3	Y	-4.50
1	4	Y	-33.44
1	5	Y	-33.93
1	6	Y	-6.55
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	-4.20
2	4	Y	-25.90
2	5	Y	-25.13
2	6	Y	-3.56
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	-4.21
1	4	Y	-39.65
1	5	Y	-40.57
1	6	Y	-6.35
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	-5.43
2	4	Y	-41.27
2	5	Y	-39.93
2	6	Y	-4.46
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00

Auto generation details:



Sheet #	135
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp			Date

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load
--------------------	--

Transverse Positioning

Number of loaded lanes = all combinations
 Live Load Positions = Constant Spacing
 Minimum Distance from Curb = 2.00 ft
 Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
 Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
 Total number of Possible Combination = 401576

Loadcase ID: LL74 Name:

Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	-2.67
1	3	Y	-24.37
1	4	Y	-26.71
1	5	Y	-5.02
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	-4.67
2	3	Y	-33.62
2	4	Y	-34.54
2	5	Y	-5.60



Sheet #	136
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp			Date

Line #	Bearing #	Dir	Load kips
2	6	Y	0.00
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00
1	1	Y	0.00
1	2	Y	-3.31
1	3	Y	-38.28
1	4	Y	-42.45
1	5	Y	-6.75
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	-4.40
2	3	Y	-40.02
2	4	Y	-41.26
2	5	Y	-5.42
2	6	Y	0.00
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load
--------------------	--

Transverse Positioning

Number of loaded lanes = all combinations
 Live Load Positions = Constant Spacing
 Minimum Distance from Curb = 2.00 ft
 Center to Center Spacing = 10.00 ft



Sheet #	137
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
File Name:		www.bentley.com	Phone:	1-800-778-4277
File Name:		Pier12EB_Ped_A2.rcp	Checked	
File Name:		Pier12EB_Ped_A2.rcp	Date	

Generate Braking/Longitudinal Force = Selected
 Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
 Total number of Possible Combination = 401576

Loadcase ID: LL75 Name:
 Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	-28.94
1	2	Y	-30.44
1	3	Y	-7.28
1	4	Y	-4.62
1	5	Y	-23.14
1	6	Y	-5.56
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	-23.81
2	2	Y	-21.41
2	3	Y	-4.76
2	4	Y	-4.17
2	5	Y	-17.80
2	6	Y	-3.02
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00
1	1	Y	-33.05
1	2	Y	-36.14
1	3	Y	-7.97
1	4	Y	-4.43
1	5	Y	-28.75
1	6	Y	-5.40
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00



Sheet #	138
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
File Name:		www.bentley.com	Phone:	1-800-778-4277
File Name:		Pier12EB_Ped_A2.rcp	Checked	
File Name:		Pier12EB_Ped_A2.rcp	Date	

Line #	Bearing #	Dir	Load kips
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	-36.15
2	2	Y	-34.65
2	3	Y	-6.63
2	4	Y	-5.58
2	5	Y	-29.34
2	6	Y	-3.79
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:
 Design Truck
 Design Truck + Lane Load

Transverse Positioning

Number of loaded lanes = all combinations
 Live Load Positions = Constant Spacing
 Minimum Distance from Curb = 2.00 ft
 Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
 Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
 Total number of Possible Combination = 401576

Loadcase ID: LL76 Name:
 Multiplier = 1.000



Sheet #	139
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp			Date

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	-37.96
1	2	Y	-43.90
1	3	Y	-45.80
1	4	Y	-39.74
1	5	Y	-7.47
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00
1	1	Y	-25.27
1	2	Y	-29.79
1	3	Y	-30.98
1	4	Y	-27.59
1	5	Y	-4.39
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00

Units: US (English)

Design Code: AASHTO LRFD



Sheet #	140
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp			Date

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load
--------------------	--

Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
Total number of Possible Combination = 401576

Loadcase ID: LL77 Name:

Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	-2.27
1	3	Y	-20.71
1	4	Y	-26.17
1	5	Y	-21.61
1	6	Y	-4.17
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 141
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp		Date	

Line #	Bearing #	Dir	Load kips
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	-3.97
2	3	Y	-28.57
2	4	Y	-34.92
2	5	Y	-28.49
2	6	Y	-4.03
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00
1	1	Y	0.00
1	2	Y	-2.81
1	3	Y	-32.54
1	4	Y	-40.51
1	5	Y	-34.49
1	6	Y	-5.40
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	-3.74
2	3	Y	-34.02
2	4	Y	-40.65
2	5	Y	-33.94
2	6	Y	-3.79
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load
--------------------	--



Sheet # 142
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp		Date	

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
Total number of Possible Combination = 401576

Loadcase ID: LL78 Name:
Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	-6.12
1	3	Y	-55.77
1	4	Y	-61.14
1	5	Y	-11.49
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00
1	1	Y	0.00
1	2	Y	-3.31
1	3	Y	-38.28



Sheet #	143
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp	Date		

Line #	Bearing #	Dir	Load kips
1	4	Y	-42.45
1	5	Y	-6.75
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck
	Design Truck + Lane Load

Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
Total number of Possible Combination = 401576



Sheet #	144
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp	Date		

Loadcase ID: LL79	Name:
Multiplier = 1.000	

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	-20.01
1	2	Y	-4.97
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	-28.58
2	2	Y	-4.75
2	3	Y	-8.20
2	4	Y	-50.41
2	5	Y	-48.86
2	6	Y	-6.89
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00
1	1	Y	-30.91
1	2	Y	-7.67
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	-33.19
2	2	Y	-5.52
2	3	Y	-4.63
2	4	Y	-35.10
2	5	Y	-33.92
2	6	Y	-3.78
2	7	Y	0.00



Sheet # 145
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier12EB_Ped_A2.rcp	Checked	Date	

Line #	Bearing #	Dir	Load kips
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load
--------------------	--

Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
Total number of Possible Combination = 401576

Loadcase ID: LL80 Name:

Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	-37.96



Sheet # 146
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier12EB_Ped_A2.rcp	Checked	Date	

Line #	Bearing #	Dir	Load kips
1	2	Y	-43.90
1	3	Y	-43.71
1	4	Y	-30.25
1	5	Y	-22.05
1	6	Y	-4.25
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	-5.26
1	11	Y	-20.23
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	-2.73
2	4	Y	-16.84
2	5	Y	-16.34
2	6	Y	-2.31
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	-3.89
2	10	Y	-15.22
1	1	Y	-25.27
1	2	Y	-29.79
1	3	Y	-30.98
1	4	Y	-30.98
1	5	Y	-26.37
1	6	Y	-4.13
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	-6.09
1	11	Y	-23.41
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	-3.53
2	4	Y	-26.83
2	5	Y	-25.95
2	6	Y	-2.90
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	-6.03
2	10	Y	-23.58

Auto generation details:



Sheet #	147
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp			Date

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load
--------------------	--

Transverse Positioning

Number of loaded lanes = all combinations
 Live Load Positions = Constant Spacing
 Minimum Distance from Curb = 2.00 ft
 Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
 Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
 Total number of Possible Combination = 401576

Loadcase ID: LL81 Name:

Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	-1.91
1	7	Y	-17.77
1	8	Y	-23.07
1	9	Y	-7.21
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	-6.84
2	3	Y	-40.85
2	4	Y	-9.50
2	5	Y	0.00



Sheet #	148
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp			Date

Line #	Bearing #	Dir	Load kips
2	6	Y	-6.68
2	7	Y	-30.84
2	8	Y	-26.65
2	9	Y	-2.49
2	10	Y	0.00
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	-2.43
1	7	Y	-28.58
1	8	Y	-34.93
1	9	Y	-11.23
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	-3.75
2	3	Y	-29.41
2	4	Y	-5.55
2	5	Y	0.00
2	6	Y	-7.07
2	7	Y	-36.67
2	8	Y	-31.34
2	9	Y	-2.36
2	10	Y	0.00

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load
--------------------	--

Transverse Positioning

Number of loaded lanes = all combinations
 Live Load Positions = Constant Spacing
 Minimum Distance from Curb = 2.00 ft
 Center to Center Spacing = 10.00 ft



Sheet #	149
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp	Date		

Generate Braking/Longitudinal Force = Selected
 Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
 Total number of Possible Combination = 401576

Loadcase ID: LL82 Name:
 Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	-2.69
1	3	Y	-24.38
1	4	Y	-26.70
1	5	Y	-5.01
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	-4.69
2	3	Y	-33.64
2	4	Y	-34.52
2	5	Y	-5.58
2	6	Y	0.00
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00
1	1	Y	0.00
1	2	Y	-3.32
1	3	Y	-38.31
1	4	Y	-42.42
1	5	Y	-6.73
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00



Sheet #	150
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp	Date		

Line #	Bearing #	Dir	Load kips
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	-4.42
2	3	Y	-40.05
2	4	Y	-41.23
2	5	Y	-5.39
2	6	Y	0.00
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:
 Design Truck
 Design Truck + Lane Load

Transverse Positioning

Number of loaded lanes = all combinations
 Live Load Positions = Constant Spacing
 Minimum Distance from Curb = 2.00 ft
 Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
 Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
 Total number of Possible Combination = 401576

Loadcase ID: LL83 Name:
 Multiplier = 1.000



Sheet #	151
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp	Date		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	-5.02
1	4	Y	-37.29
1	5	Y	-42.94
1	6	Y	-40.18
1	7	Y	-40.18
1	8	Y	-40.38
1	9	Y	-37.82
1	10	Y	-18.52
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	-2.73
1	4	Y	-25.77
1	5	Y	-29.13
1	6	Y	-27.29
1	7	Y	-27.29
1	8	Y	-27.29
1	9	Y	-24.40
1	10	Y	-12.98
1	11	Y	-0.13
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00

Units: US (English)

Design Code: AASHTO LRFD



Sheet #	152
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp	Date		

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck
	Design Truck + Lane Load

Transverse Positioning

Number of loaded lanes = all combinations
 Live Load Positions = Constant Spacing
 Minimum Distance from Curb = 2.00 ft
 Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
 Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
 Total number of Possible Combination = 401576

Loadcase ID: LL84 Name:

Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	-15.30
1	2	Y	-3.80
1	3	Y	-2.19
1	4	Y	-16.29
1	5	Y	-18.76
1	6	Y	-16.10
1	7	Y	-3.96
1	8	Y	0.00
1	9	Y	0.00

Units: US (English)

Design Code: AASHTO LRFD



Sheet #	153
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp	Date		

Line #	Bearing #	Dir	Load kips
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	-26.03
2	2	Y	-40.08
2	3	Y	-43.20
2	4	Y	-29.74
2	5	Y	-26.51
2	6	Y	-21.16
2	7	Y	-2.69
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00
1	1	Y	-23.64
1	2	Y	-5.87
1	3	Y	-2.73
1	4	Y	-25.77
1	5	Y	-29.13
1	6	Y	-25.43
1	7	Y	-5.44
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	-27.64
2	2	Y	-29.36
2	3	Y	-31.09
2	4	Y	-31.09
2	5	Y	-30.82
2	6	Y	-25.14
2	7	Y	-2.51
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck
	Design Truck + Lane Load



Sheet #	154
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp	Date		

Number of loaded lanes = all combinations
 Live Load Positions = Constant Spacing
 Minimum Distance from Curb = 2.00 ft
 Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
 Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
 Total number of Possible Combination = 401576

Loadcase ID: LL85 Name:
 Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	-1.75
1	3	Y	-13.64
1	4	Y	-3.71
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	-3.05
2	3	Y	-24.48
2	4	Y	-42.78
2	5	Y	-45.48
2	6	Y	-45.08
2	7	Y	-45.08
2	8	Y	-34.94
2	9	Y	-3.25
2	10	Y	0.00
1	1	Y	0.00
1	2	Y	-2.16
1	3	Y	-22.15



Sheet #	155
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp			Date

Line #	Bearing #	Dir	Load kips
1	4	Y	-5.19
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	-2.87
2	3	Y	-26.03
2	4	Y	-31.09
2	5	Y	-30.82
2	6	Y	-30.55
2	7	Y	-30.55
2	8	Y	-23.94
2	9	Y	-1.79
2	10	Y	0.00

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck
	Design Truck + Lane Load

Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
Total number of Possible Combination = 401576



Sheet #	156
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp			Date

Loadcase ID: LL86 Name:
Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	-3.59
1	3	Y	-32.53
1	4	Y	-35.62
1	5	Y	-6.68
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	-3.52
2	3	Y	-25.22
2	4	Y	-25.88
2	5	Y	-4.18
2	6	Y	0.00
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00
1	1	Y	0.00
1	2	Y	-3.32
1	3	Y	-38.31
1	4	Y	-42.42
1	5	Y	-6.73
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	-4.42
2	3	Y	-40.05
2	4	Y	-41.23
2	5	Y	-5.39
2	6	Y	0.00
2	7	Y	0.00



Sheet #	157
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier12EB_Ped_A2.rcp	Checked	Date	

Line #	Bearing #	Dir	Load kips
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load
--------------------	--

Transverse Positioning

Number of loaded lanes = all combinations
 Live Load Positions = Constant Spacing
 Minimum Distance from Curb = 2.00 ft
 Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
 Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
 Total number of Possible Combination = 401576

Loadcase ID: LL87 Name:

Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	-22.13



Sheet #	158
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier12EB_Ped_A2.rcp	Checked	Date	

Line #	Bearing #	Dir	Load kips
1	2	Y	-25.59
1	3	Y	-26.70
1	4	Y	-26.70
1	5	Y	-25.03
1	6	Y	-21.48
1	7	Y	-5.29
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	-18.21
2	2	Y	-18.65
2	3	Y	-20.02
2	4	Y	-20.02
2	5	Y	-19.87
2	6	Y	-15.86
2	7	Y	-2.02
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00
1	1	Y	-25.27
1	2	Y	-29.79
1	3	Y	-30.98
1	4	Y	-30.98
1	5	Y	-29.13
1	6	Y	-25.43
1	7	Y	-5.44
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	-27.64
2	2	Y	-29.36
2	3	Y	-31.09
2	4	Y	-31.09
2	5	Y	-30.82
2	6	Y	-25.14
2	7	Y	-2.51
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00

Auto generation details:



Sheet #	159
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp			Date

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load
--------------------	--

Transverse Positioning

Number of loaded lanes = all combinations
 Live Load Positions = Constant Spacing
 Minimum Distance from Curb = 2.00 ft
 Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
 Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
 Total number of Possible Combination = 401576

Loadcase ID: LL88 Name:

Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	-3.57
1	3	Y	-28.01
1	4	Y	-7.63
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	-8.09
1	11	Y	-31.12
2	1	Y	0.00
2	2	Y	-3.50
2	3	Y	-21.00
2	4	Y	-4.90
2	5	Y	0.00



Sheet #	160
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp			Date

Line #	Bearing #	Dir	Load kips
2	6	Y	0.00
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	-5.99
2	10	Y	-23.41
1	1	Y	0.00
1	2	Y	-3.31
1	3	Y	-34.07
1	4	Y	-8.01
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	-9.37
1	11	Y	-36.02
2	1	Y	0.00
2	2	Y	-4.40
2	3	Y	-34.59
2	4	Y	-6.55
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	-9.28
2	10	Y	-36.27

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck Design Truck + Lane Load
--------------------	--

Transverse Positioning

Number of loaded lanes = all combinations
 Live Load Positions = Constant Spacing
 Minimum Distance from Curb = 2.00 ft
 Center to Center Spacing = 10.00 ft



Sheet #	161
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
File Name:		www.bentley.com	Phone:	1-800-778-4277
File Name:		Pier12EB_Ped_A2.rcp	Checked	
File Name:		Pier12EB_Ped_A2.rcp	Date	

Generate Braking/Longitudinal Force = Selected
 Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
 Total number of Possible Combination = 401576

Loadcase ID: LL89 Name:
 Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	-2.99
1	7	Y	-26.49
1	8	Y	-9.73
1	9	Y	0.00
1	10	Y	-8.09
1	11	Y	-31.12
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	-5.90
2	7	Y	-20.85
2	8	Y	-2.65
2	9	Y	-5.99
2	10	Y	-23.41
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	-2.86
1	7	Y	-31.88
1	8	Y	-10.65
1	9	Y	0.00



Sheet #	162
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
File Name:		www.bentley.com	Phone:	1-800-778-4277
File Name:		Pier12EB_Ped_A2.rcp	Checked	
File Name:		Pier12EB_Ped_A2.rcp	Date	

Line #	Bearing #	Dir	Load kips
1	10	Y	-9.37
1	11	Y	-36.02
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	-8.32
2	7	Y	-33.94
2	8	Y	-3.29
2	9	Y	-9.28
2	10	Y	-36.27

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:
 Design Truck
 Design Truck + Lane Load

Transverse Positioning

Number of loaded lanes = all combinations
 Live Load Positions = Constant Spacing
 Minimum Distance from Curb = 2.00 ft
 Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
 Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
 Total number of Possible Combination = 401576

Loadcase ID: LL90 Name:
 Multiplier = 1.000



Sheet #	163
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM	
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013	
		www.bentley.com Phone: 1-800-778-4277	Checked		
File Name:	Pier12EB_Ped_A2.rcp			Date	

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	-64.10
2	2	Y	-57.65
2	3	Y	-12.81
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	-42.53
2	2	Y	-40.76
2	3	Y	-7.80
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00

Units: US (English)

Design Code: AASHTO LRFD



Sheet #	164
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM	
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013	
		www.bentley.com Phone: 1-800-778-4277	Checked		
File Name:	Pier12EB_Ped_A2.rcp			Date	

Auto generation details:**Generated Live Load****Longitudinal Reaction: Simple Span Distribution**

Selected Vehicles:	Design Truck Design Truck + Lane Load
--------------------	--

Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
Total number of Possible Combination = 401576

Loadcase ID: LL91 Name:

Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	-58.40
1	2	Y	-61.42
1	3	Y	-14.70
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 165
Job #

Program: LEAP® RC-PIER® V8i (SELECTseries 5) SE Client Licenses Designed KSM
Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 Date Sep/10/2013
www.bentley.com Phone: 1-800-778-4277 Checked
File Name: Pier12EB_Ped_A2.rcp Date

Line #	Bearing #	Dir	Load kips
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00
1	1	Y	-38.88
1	2	Y	-42.52
1	3	Y	-9.38
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:
Design Truck
Design Truck + Lane Load



Sheet # 166
Job #

Program: LEAP® RC-PIER® V8i (SELECTseries 5) SE Client Licenses Designed KSM
Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 Date Sep/10/2013
www.bentley.com Phone: 1-800-778-4277 Checked
File Name: Pier12EB_Ped_A2.rcp Date

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
Total number of Possible Combination = 401576

Loadcase ID: LL92 Name:
Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	-35.93
1	2	Y	-55.84
1	3	Y	-14.70
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	-25.21
2	2	Y	-4.19
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00
1	1	Y	-38.88
1	2	Y	-42.52
1	3	Y	-9.38



Sheet #	167
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp			Date

Line #	Bearing #	Dir	Load kips
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	-39.05
2	2	Y	-6.49
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:	Design Truck
	Design Truck + Lane Load

Transverse Positioning

Number of loaded lanes = all combinations
 Live Load Positions = Constant Spacing
 Minimum Distance from Curb = 2.00 ft
 Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
 Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
 Total number of Possible Combination = 401576



Sheet #	168
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp			Date

Loadcase ID: LL93 Name:
 Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	-69.22
2	2	Y	-11.51
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00
1	1	Y	0.00
1	2	Y	0.00
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	-46.86
2	2	Y	-7.79
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	0.00



Sheet # 169
Job #

Program: LEAP® RC-PIER® V8i (SELECTseries 5) SE Client Licenses Designed KSM
Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 Date Sep/10/2013
www.bentley.com Phone: 1-800-778-4277 Checked
File Name: Pier12EB_Ped_A2.rcp Date

Line #	Bearing #	Dir	Load kips
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00

Auto generation details:

Generated Live Load

Longitudinal Reaction: Simple Span Distribution

Selected Vehicles:
Design Truck
Design Truck + Lane Load

Transverse Positioning

Number of loaded lanes = all combinations
Live Load Positions = Constant Spacing
Minimum Distance from Curb = 2.00 ft
Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
Total number of Possible Combination = 401576

Loadcase ID: LL94 Name:

Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	-28.25



Sheet # 170
Job #

Program: LEAP® RC-PIER® V8i (SELECTseries 5) SE Client Licenses Designed KSM
Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 Date Sep/10/2013
www.bentley.com Phone: 1-800-778-4277 Checked
File Name: Pier12EB_Ped_A2.rcp Date

Line #	Bearing #	Dir	Load kips
1	2	Y	-7.01
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	-40.35
2	2	Y	-6.71
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00
1	1	Y	-43.63
1	2	Y	-10.83
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	-46.86
2	2	Y	-7.79
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00

Auto generation details:



Sheet # 171

Job #

Program: LEAP® RC-PIER® V8i (SELECTseries 5)

SE Client Licenses

Designed KSM

Version: 12.01.00.57

Copyright © Bentley Systems, Inc. 2012

Date Sep/10/2013

www.bentley.com Phone: 1-800-778-4277

Checked

File Name: Pier12EB_Ped_A2.rcp

Date

Generated Live Load**Longitudinal Reaction: Simple Span Distribution**

Selected Vehicles:

Design Truck
Design Truck + Lane Load**Transverse Positioning**

Number of loaded lanes = all combinations

Live Load Positions = Constant Spacing

Minimum Distance from Curb = 2.00 ft

Center to Center Spacing = 10.00 ft

Generate Braking/Longitudinal Force = Selected

Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36

Total number of Possible Combination = 401576

Loadcase ID: LL95 Name:

Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	-64.66
1	2	Y	-16.05
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 172

Job #

Program: LEAP® RC-PIER® V8i (SELECTseries 5)

SE Client Licenses

Designed KSM

Version: 12.01.00.57

Copyright © Bentley Systems, Inc. 2012

Date Sep/10/2013

www.bentley.com Phone: 1-800-778-4277

Checked

File Name: Pier12EB_Ped_A2.rcp

Date

Line #	Bearing #	Dir	Load kips
2	6	Y	0.00
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00
1	1	Y	-43.63
1	2	Y	-10.83
1	3	Y	0.00
1	4	Y	0.00
1	5	Y	0.00
1	6	Y	0.00
1	7	Y	0.00
1	8	Y	0.00
1	9	Y	0.00
1	10	Y	0.00
1	11	Y	0.00
2	1	Y	0.00
2	2	Y	0.00
2	3	Y	0.00
2	4	Y	0.00
2	5	Y	0.00
2	6	Y	0.00
2	7	Y	0.00
2	8	Y	0.00
2	9	Y	0.00
2	10	Y	0.00

Auto generation details:**Generated Live Load****Longitudinal Reaction: Simple Span Distribution**

Selected Vehicles:

Design Truck
Design Truck + Lane Load**Transverse Positioning**

Number of loaded lanes = all combinations

Live Load Positions = Constant Spacing

Minimum Distance from Curb = 2.00 ft

Center to Center Spacing = 10.00 ft

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 173
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier12EB_Ped_A2.rcp	Checked	Date	

Generate Braking/Longitudinal Force = Selected
Generate Centrifugal Force = Not Selected

Total number of Considered Truck Positions = 36
Total number of Possible Combination = 401576

Loadcase ID: WS1 Name: Angle: 0
Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Force	X	0.00	-7.78 kips	0.50		
UDL	Z		-0.02 kf	0.00		1.00

Column loads

Col #	Type	Dir	Mag1	y1/L	Mag2	y2/L
3	UDL	X	-0.238 kf	0.00		1.00
3	UDL	Z	-0.060 kf	0.00		1.00
2	UDL	X	-0.238 kf	0.00		0.85
2	UDL	Z	-0.060 kf	0.00		0.85
1	UDL	X	-0.238 kf	0.00		1.00
1	UDL	Z	-0.060 kf	0.00		1.00
4	UDL	X	0.238 kf	0.00		0.85
4	UDL	Z	0.060 kf	0.00		0.85
5	UDL	X	0.238 kf	0.00		1.00
5	UDL	Z	0.060 kf	0.00		1.00
6	UDL	X	0.238 kf	0.00		0.85
6	UDL	Z	0.060 kf	0.00		0.85

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Z	-0.97
1	1	Y	-27.90
1	1	X	-3.84
1	2	Z	-0.97
1	2	Y	13.29
1	2	X	-3.84
1	3	Z	-0.97



Sheet # 174
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier12EB_Ped_A2.rcp	Checked	Date	

Line #	Bearing #	Dir	Load kips
1	3	Y	13.29
1	3	X	-3.84
1	4	Z	-0.97
1	4	Y	13.29
1	4	X	-3.84
1	5	Z	-0.97
1	5	Y	13.29
1	5	X	-3.84
1	6	X	-3.84
1	6	Y	13.29
1	6	Z	-0.97
1	7	Z	-0.97
1	7	Y	13.29
1	7	X	-3.84
1	8	Z	-0.97
1	8	Y	13.29
1	8	X	-3.84
1	9	Z	-0.97
1	9	Y	13.29
1	9	X	-3.84
1	10	Z	-0.97
1	10	Y	13.29
1	10	X	-3.84
1	11	Z	-0.97
1	11	Y	54.48
1	11	X	-3.84
2	1	X	-4.23
2	1	Y	-26.66
2	1	Z	-1.07
2	2	X	-4.23
2	2	Y	14.67
2	2	Z	-1.07
2	3	X	-4.23
2	3	Y	14.67
2	3	Z	-1.07
2	4	X	-4.23
2	4	Y	14.67
2	4	Z	-1.07
2	5	X	-4.23
2	5	Y	14.67
2	5	Z	-1.07
2	6	X	-4.23
2	6	Y	14.67
2	6	Z	-1.07
2	7	X	-4.23
2	7	Y	14.67
2	7	Z	-1.07
2	8	X	-4.23
2	8	Y	14.67



Sheet # 175
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp		Date	

Line #	Bearing #	Dir	Load kips
	8	Z	-1.07
2	9	X	-4.23
2	9	Y	14.67
2	9	Z	-1.07
2	10	X	-4.23
2	10	Y	56.00
2	10	Z	-1.07

Auto generation details:

Generated Wind Load on Structure

Angle of wind = 0.00 deg Elevation above which wind load acts = 0.00 ft
Default wind pressure:

Wind pressure for superstructure: Wind pressure for substructure:
Transverse 62.141 psf Cap 46.007 psf
Longitudinal 0.000 psf Column 46.007 psf
Overturning 20.000 psf

Loadcase ID: WS2 Name: Angle: 15

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Force	X	0.00	-1.65 kips	0.50		
UDL	Z		0.00 kif	0.00		1.00

Column loads

Col #	Type	Dir	Mag1	y1/L	Mag2	y2/L
3	UDL	X	-0.188 kif	0.00		1.00
3	UDL	Z	0.003 kif	0.00		1.00
2	UDL	X	-0.188 kif	0.00		0.85
2	UDL	Z	0.003 kif	0.00		0.85
1	UDL	X	-0.188 kif	0.00		1.00

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 176
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp		Date	

Col #	Type	Dir	Mag1	y1/L	Mag2	y2/L
1	UDL	Z	0.003 kif	0.00		1.00
4	UDL	X	0.188 kif	0.00		0.85
4	UDL	Z	-0.003 kif	0.00		0.85
5	UDL	X	0.188 kif	0.00		1.00
5	UDL	Z	-0.003 kif	0.00		1.00
6	UDL	X	0.188 kif	0.00		0.85
6	UDL	Z	-0.003 kif	0.00		0.85

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Z	-0.39
1	1	Y	-1.97
1	1	X	-3.49
1	2	Z	-0.39
1	2	Y	-0.00
1	2	X	-3.49
1	3	Z	-0.39
1	3	Y	-0.00
1	3	X	-3.49
1	4	Z	-0.39
1	4	Y	-0.00
1	4	X	-3.49
1	5	Z	-0.39
1	5	Y	-0.00
1	5	X	-3.49
1	6	X	-3.49
1	6	Y	-0.00
1	6	Z	-0.39
1	7	Z	-0.39
1	7	Y	-0.00
1	7	X	-3.49
1	8	Z	-0.39
1	8	Y	-0.00
1	8	X	-3.49
1	9	Z	-0.39
1	9	Y	-0.00
1	9	X	-3.49
1	10	Z	-0.39
1	10	Y	-0.00
1	10	X	-3.49
1	11	Z	-0.39
1	11	Y	1.97
1	11	X	-3.49
2	1	X	-3.85
2	1	Y	-1.97
2	1	Z	-0.43

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 177
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
File Name:		www.bentley.com	Phone:	1-800-778-4277
File Name:		Pier12EB_Ped_A2.rcp	Checked	Date

Line #	Bearing #	Dir	Load kips
2	2	X	-3.85
2	2	Y	-0.00
2	2	Z	-0.43
2	3	X	-3.85
2	3	Y	-0.00
2	3	Z	-0.43
2	4	X	-3.85
2	4	Y	-0.00
2	4	Z	-0.43
2	5	X	-3.85
2	5	Y	-0.00
2	5	Z	-0.43
2	6	X	-3.85
2	6	Y	-0.00
2	6	Z	-0.43
2	7	X	-3.85
2	7	Y	-0.00
2	7	Z	-0.43
2	8	X	-3.85
2	8	Y	-0.00
2	8	Z	-0.43
2	9	X	-3.85
2	9	Y	-0.00
2	9	Z	-0.43
2	10	X	-3.85
2	10	Y	1.97
2	10	Z	-0.43

Auto generation details:

Generated Wind Load on Structure

Angle of wind = 15.00 deg Elevation above which wind load acts = 0.00 ft
Default wind pressure:

Wind pressure for superstructure: Wind pressure for substructure:
Transverse 54.684 psf Cap 46.007 psf
Longitudinal 7.457 psf Column 46.007 psf
Overturning not considered

Loadcase ID: WS3 Name: Angle: 30



Sheet # 178
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
File Name:		www.bentley.com	Phone:	1-800-778-4277
File Name:		Pier12EB_Ped_A2.rcp	Checked	Date

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Force	X	0.00	-8.48 kips	0.50		
UDL	Z		0.02 kif	0.00		1.00

Column loads

Col #	Type	Dir	Mag1	y1/L	Mag2	y2/L
3	UDL	X	-0.243 kif	0.00		1.00
3	UDL	Z	0.069 kif	0.00		1.00
2	UDL	X	-0.243 kif	0.00		0.85
2	UDL	Z	0.069 kif	0.00		0.85
1	UDL	X	-0.243 kif	0.00		1.00
1	UDL	Z	0.069 kif	0.00		1.00
4	UDL	X	0.243 kif	0.00		0.85
4	UDL	Z	-0.069 kif	0.00		0.85
5	UDL	X	0.243 kif	0.00		1.00
5	UDL	Z	-0.069 kif	0.00		1.00
6	UDL	X	0.243 kif	0.00		0.85
6	UDL	Z	-0.069 kif	0.00		0.85

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Z	0.13
1	1	Y	-1.90
1	1	X	-3.38
1	2	Z	0.13
1	2	Y	-0.00
1	2	X	-3.38
1	3	Z	0.13
1	3	Y	-0.00
1	3	X	-3.38
1	4	Z	0.13
1	4	Y	-0.00
1	4	X	-3.38
1	5	Z	0.13
1	5	Y	-0.00
1	5	X	-3.38
1	6	X	-3.38
1	6	Y	-0.00
1	6	Z	0.13



Sheet # 179
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier12EB_Ped_A2.rcp	Checked	Date	

Line #	Bearing #	Dir	Load kips
1	7	Z	0.13
1	7	Y	-0.00
1	7	X	-3.38
1	8	Z	0.13
1	8	Y	-0.00
1	8	X	-3.38
1	9	Z	0.13
1	9	Y	-0.00
1	9	X	-3.38
1	10	Z	0.13
1	10	Y	-0.00
1	10	X	-3.38
1	11	Z	0.13
1	11	Y	1.90
1	11	X	-3.38
2	1	X	-3.73
2	1	Y	-1.91
2	1	Z	0.14
2	2	X	-3.73
2	2	Y	-0.00
2	2	Z	0.14
2	3	X	-3.73
2	3	Y	-0.00
2	3	Z	0.14
2	4	X	-3.73
2	4	Y	-0.00
2	4	Z	0.14
2	5	X	-3.73
2	5	Y	-0.00
2	5	Z	0.14
2	6	X	-3.73
2	6	Y	-0.00
2	6	Z	0.14
2	7	X	-3.73
2	7	Y	-0.00
2	7	Z	0.14
2	8	X	-3.73
2	8	Y	-0.00
2	8	Z	0.14
2	9	X	-3.73
2	9	Y	-0.00
2	9	Z	0.14
2	10	X	-3.73
2	10	Y	1.91
2	10	Z	0.14

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 180
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier12EB_Ped_A2.rcp	Checked	Date	

Auto generation details:

Generated Wind Load on Structure

Angle of wind = 30.00 deg Elevation above which wind load acts = 0.00 ft
Default wind pressure:

Wind pressure for superstructure: Wind pressure for substructure:
Transverse 50.956 psf Cap 46.007 psf
Longitudinal 14.914 psf Column 46.007 psf
Overturning not considered

Loadcase ID: WS4 Name: Angle: 45

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Force	X	0.00	-13.20 kips	0.50		
UDL	Z		0.08 kif	0.00		1.00

Column loads

Col #	Type	Dir	Mag1	y1/L	Mag2	y2/L
3	UDL	X	-0.257 kif	0.00		1.00
3	UDL	Z	0.154 kif	0.00		1.00
2	UDL	X	-0.257 kif	0.00		0.85
2	UDL	Z	0.154 kif	0.00		0.85
1	UDL	X	-0.257 kif	0.00		1.00
1	UDL	Z	0.154 kif	0.00		1.00
4	UDL	X	0.257 kif	0.00		0.85
4	UDL	Z	-0.154 kif	0.00		0.85
5	UDL	X	0.257 kif	0.00		1.00
5	UDL	Z	-0.154 kif	0.00		1.00
6	UDL	X	0.257 kif	0.00		0.85
6	UDL	Z	-0.154 kif	0.00		0.85

Bearing loads

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 181
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier12EB_Ped_A2.rcp	Checked	Date	

Line #	Bearing #	Dir	Load kips
1	1	Z	0.59
1	1	Y	-1.60
1	1	X	-2.84
1	2	Z	0.59
1	2	Y	-0.00
1	2	X	-2.84
1	3	Z	0.59
1	3	Y	-0.00
1	3	X	-2.84
1	4	Z	0.59
1	4	Y	-0.00
1	4	X	-2.84
1	5	Z	0.59
1	5	Y	-0.00
1	5	X	-2.84
1	6	X	-2.84
1	6	Y	-0.00
1	6	Z	0.59
1	7	Z	0.59
1	7	Y	-0.00
1	7	X	-2.84
1	8	Z	0.59
1	8	Y	-0.00
1	8	X	-2.84
1	9	Z	0.59
1	9	Y	-0.00
1	9	X	-2.84
1	10	Z	0.59
1	10	Y	-0.00
1	10	X	-2.84
1	11	Z	0.59
1	11	Y	1.60
1	11	X	-2.84
2	1	X	-3.14
2	1	Y	-1.60
2	1	Z	0.65
2	2	X	-3.14
2	2	Y	-0.00
2	2	Z	0.65
2	3	X	-3.14
2	3	Y	-0.00
2	3	Z	0.65
2	4	X	-3.14
2	4	Y	-0.00
2	4	Z	0.65
2	5	X	-3.14
2	5	Y	-0.00
2	5	Z	0.65
2	6	X	-3.14

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 182
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier12EB_Ped_A2.rcp	Checked	Date	

Line #	Bearing #	Dir	Load kips
	6	Y	-0.00
2	6	Z	0.65
2	7	X	-3.14
2	7	Y	-0.00
2	7	Z	0.65
2	8	X	-3.14
2	8	Y	-0.00
2	8	Z	0.65
2	9	X	-3.14
2	9	Y	-0.00
2	9	Z	0.65
2	10	X	-3.14
2	10	Y	1.60
2	10	Z	0.65

Auto generation details:

Generated Wind Load on Structure

Angle of wind = 45.00 deg Elevation above which wind load acts = 0.00 ft
Default wind pressure:

Wind pressure for superstructure: Wind pressure for substructure:
Transverse 41.013 psf Cap 46.007 psf
Longitudinal 19.885 psf Column 46.007 psf
Overturning not considered

Loadcase ID: WS5 Name: Angle: 60

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Force	X	0.00	-14.54 kips	0.50		
UDL	Z		0.15 kif	0.00		1.00

Column loads

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 183
Job #

Program: LEAP® RC-PIER® V8i (SELECTseries 5) SE Client Licenses Designed KSM
Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 Date Sep/10/2013
www.bentley.com Phone: 1-800-778-4277 Checked
File Name: Pier12EB_Ped_A2.rcp Date

Col #	Type	Dir	Mag1	y1/L	Mag2	y2/L
3	UDL	X	-0.227 klf	0.00		1.00
3	UDL	Z	0.234 klf	0.00		1.00
2	UDL	X	-0.227 klf	0.00		0.85
2	UDL	Z	0.234 klf	0.00		0.85
1	UDL	X	-0.227 klf	0.00		1.00
1	UDL	Z	0.234 klf	0.00		1.00
4	UDL	X	0.227 klf	0.00		0.85
4	UDL	Z	-0.234 klf	0.00		0.85
5	UDL	X	0.227 klf	0.00		1.00
5	UDL	Z	-0.234 klf	0.00		1.00
6	UDL	X	0.227 klf	0.00		0.85
6	UDL	Z	-0.234 klf	0.00		0.85

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Z	1.13
1	1	Y	-0.94
1	1	X	-1.67
1	2	Z	1.13
1	2	Y	-0.00
1	2	X	-1.67
1	3	Z	1.13
1	3	Y	-0.00
1	3	X	-1.67
1	4	Z	1.13
1	4	Y	-0.00
1	4	X	-1.67
1	5	Z	1.13
1	5	Y	-0.00
1	5	X	-1.67
1	6	X	-1.67
1	6	Y	-0.00
1	6	Z	1.13
1	7	Z	1.13
1	7	Y	-0.00
1	7	X	-1.67
1	8	Z	1.13
1	8	Y	-0.00
1	8	X	-1.67
1	9	Z	1.13
1	9	Y	-0.00
1	9	X	-1.67
1	10	Z	1.13
1	10	Y	-0.00
1	10	X	-1.67
1	11	Z	1.13



Sheet # 184
Job #

Program: LEAP® RC-PIER® V8i (SELECTseries 5) SE Client Licenses Designed KSM
Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 Date Sep/10/2013
www.bentley.com Phone: 1-800-778-4277 Checked
File Name: Pier12EB_Ped_A2.rcp Date

Line #	Bearing #	Dir	Load kips
1	11	Y	0.94
1	11	X	-1.67
2	1	X	-1.85
2	1	Y	-0.94
2	1	Z	1.25
2	2	X	-1.85
2	2	Y	-0.00
2	2	Z	1.25
2	3	X	-1.85
2	3	Y	-0.00
2	3	Z	1.25
2	4	X	-1.85
2	4	Y	-0.00
2	4	Z	1.25
2	5	X	-1.85
2	5	Y	-0.00
2	5	Z	1.25
2	6	X	-1.85
2	6	Y	-0.00
2	6	Z	1.25
2	7	X	-1.85
2	7	Y	-0.00
2	7	Z	1.25
2	8	X	-1.85
2	8	Y	-0.00
2	8	Z	1.25
2	9	X	-1.85
2	9	Y	-0.00
2	9	Z	1.25
2	10	X	-1.85
2	10	Y	0.94
2	10	Z	1.25

Auto generation details:

Generated Wind Load on Structure

Angle of wind = 60.00 deg Elevation above which wind load acts = 0.00 ft
Default wind pressure:

Wind pressure for superstructure: Wind pressure for substructure:
Transverse 21.128 psf Cap 46.007 psf
Longitudinal 23.614 psf Column 46.007 psf
Overtuning not considered



Sheet # 185

Job #

Program: LEAP® RC-PIER® V8i (SELECTseries 5)

SE Client Licenses

Designed KSM

Version: 12.01.00.57

Copyright © Bentley Systems, Inc. 2012

Date Sep/10/2013

www.bentley.com Phone: 1-800-778-4277

Checked

File Name: Pier12EB_Ped_A2.rcp

Date

Loadcase ID: WS6 Name: Angle: 75

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Force	X	0.00	-12.16 kips	0.50		
UDL	Z		0.22 kif	0.00		1.00

Column loads

Col #	Type	Dir	Mag1	y1/L	Mag2	y2/L
3	UDL	X	-0.161 kif	0.00		1.00
3	UDL	Z	0.289 kif	0.00		1.00
2	UDL	X	-0.161 kif	0.00		0.85
2	UDL	Z	0.289 kif	0.00		0.85
1	UDL	X	-0.161 kif	0.00		1.00
1	UDL	Z	0.289 kif	0.00		1.00
4	UDL	X	0.161 kif	0.00		0.85
4	UDL	Z	-0.289 kif	0.00		0.85
5	UDL	X	0.161 kif	0.00		1.00
5	UDL	Z	-0.289 kif	0.00		1.00
6	UDL	X	0.161 kif	0.00		0.85
6	UDL	Z	-0.289 kif	0.00		0.85

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Z	1.48
1	1	Y	-0.71
1	1	X	-1.27
1	2	Z	1.48
1	2	Y	-0.00
1	2	X	-1.27
1	3	Z	1.48
1	3	Y	-0.00
1	3	X	-1.27
1	4	Z	1.48
1	4	Y	-0.00
1	4	X	-1.27
1	5	Z	1.48

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 186

Job #

Program: LEAP® RC-PIER® V8i (SELECTseries 5)

SE Client Licenses

Designed KSM

Version: 12.01.00.57

Copyright © Bentley Systems, Inc. 2012

Date Sep/10/2013

www.bentley.com Phone: 1-800-778-4277

Checked

File Name: Pier12EB_Ped_A2.rcp

Date

Line #	Bearing #	Dir	Load kips
1	5	Y	-0.00
1	5	X	-1.27
1	6	X	-1.27
1	6	Y	-0.00
1	6	Z	1.48
1	7	Z	1.48
1	7	Y	-0.00
1	7	X	-1.27
1	8	Z	1.48
1	8	Y	-0.00
1	8	X	-1.27
1	9	Z	1.48
1	9	Y	-0.00
1	9	X	-1.27
1	10	Z	1.48
1	10	Y	-0.00
1	10	X	-1.27
1	11	Z	1.48
1	11	Y	0.71
1	11	X	-1.27
2	1	X	-1.40
2	1	Y	-0.72
2	1	Z	1.63
2	2	X	-1.40
2	2	Y	-0.00
2	2	Z	1.63
2	3	X	-1.40
2	3	Y	-0.00
2	3	Z	1.63
2	4	X	-1.40
2	4	Y	-0.00
2	4	Z	1.63
2	5	X	-1.40
2	5	Y	-0.00
2	5	Z	1.63
2	6	X	-1.40
2	6	Y	-0.00
2	6	Z	1.63
2	7	X	-1.40
2	7	Y	-0.00
2	7	Z	1.63
2	8	X	-1.40
2	8	Y	-0.00
2	8	Z	1.63
2	9	X	-1.40
2	9	Y	-0.00
2	9	Z	1.63
2	10	X	-1.40
2	10	Y	0.72

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 187

Job #

Program: LEAP® RC-PIER® V8i (SELECTseries 5)

SE Client Licenses

Designed KSM

Version: 12.01.00.57

Copyright © Bentley Systems, Inc. 2012

Date Sep/10/2013

www.bentley.com Phone: 1-800-778-4277

Checked

File Name: Pier12EB_Ped_A2.rcp

Date

Line #	Bearing #	Dir	Load kips
	10	Z	1.63

Auto generation details:**Generated Wind Load on Structure**

Angle of wind = 75.00 deg Elevation above which wind load acts = 0.00 ft
 Default wind pressure:

Wind pressure for superstructure: Wind pressure for substructure:
 Transverse 13.671 psf Cap 46.007 psf
 Longitudinal 27.342 psf Column 46.007 psf
 Overturning not considered

Loadcase ID: BR1 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-587.86 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.51
1	1	Z	-2.02
1	1	Y	0.77
1	2	X	0.51
1	2	Z	-2.02
1	3	X	0.51
1	3	Z	-2.02
1	4	X	0.51
1	4	Z	-2.02

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 188

Job #

Program: LEAP® RC-PIER® V8i (SELECTseries 5)

SE Client Licenses

Designed KSM

Version: 12.01.00.57

Copyright © Bentley Systems, Inc. 2012

Date Sep/10/2013

www.bentley.com Phone: 1-800-778-4277

Checked

File Name: Pier12EB_Ped_A2.rcp

Date

Line #	Bearing #	Dir	Load kips
1	5	X	0.51
1	5	Z	-2.02
1	6	X	0.51
1	6	Z	-2.02
1	7	X	0.51
1	7	Z	-2.02
1	8	X	0.51
1	8	Z	-2.02
1	9	X	0.51
1	9	Z	-2.02
1	10	X	0.51
1	10	Z	-2.02
1	11	X	0.51
1	11	Z	-2.02
1	11	Y	-0.77
2	1	X	0.56
2	1	Z	-2.23
2	1	Y	0.77
2	2	X	0.56
2	2	Z	-2.23
2	3	X	0.56
2	3	Z	-2.23
2	4	X	0.56
2	4	Z	-2.23
2	5	X	0.56
2	5	Z	-2.23
2	6	X	0.56
2	6	Z	-2.23
2	7	X	0.56
2	7	Z	-2.23
2	8	X	0.56
2	8	Z	-2.23
2	9	X	0.56
2	9	Z	-2.23
2	10	X	0.56
2	10	Z	-2.23
2	10	Y	-0.77

Auto generation details:**Selected Live Load for BR generation**

Load: Design Truck
 Load: Design Truck + Lane Load

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 189
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp		Date	

Number of loaded lanes = 3
Contributing longitudinal length = 142.09 ft

Loadcase ID: BR2 Name:
Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-899.08 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.78
1	1	Z	-3.09
1	1	Y	1.17
1	2	X	0.78
1	2	Z	-3.09
1	3	X	0.78
1	3	Z	-3.09
1	4	X	0.78
1	4	Z	-3.09
1	5	X	0.78
1	5	Z	-3.09
1	6	X	0.78
1	6	Z	-3.09
1	7	X	0.78
1	7	Z	-3.09
1	8	X	0.78
1	8	Z	-3.09
1	9	X	0.78
1	9	Z	-3.09
1	10	X	0.78
1	10	Z	-3.09
1	11	X	0.78
1	11	Z	-3.09
1	11	Y	-1.17
2	1	X	0.86
2	1	Z	-3.40
2	1	Y	1.17



Sheet # 190
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp		Date	

Line #	Bearing #	Dir	Load kips
2	2	X	0.86
2	2	Z	-3.40
2	3	X	0.86
2	3	Z	-3.40
2	4	X	0.86
2	4	Z	-3.40
2	5	X	0.86
2	5	Z	-3.40
2	6	X	0.86
2	6	Z	-3.40
2	7	X	0.86
2	7	Z	-3.40
2	8	X	0.86
2	8	Z	-3.40
2	9	X	0.86
2	9	Z	-3.40
2	10	X	0.86
2	10	Z	-3.40
2	10	Y	-1.17

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
Load: Design Truck + Lane Load
Number of loaded lanes = 6
Contributing longitudinal length = 142.09 ft

Loadcase ID: BR3 Name:
Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-587.86 k-ft	0.50		



Sheet #	191
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp			Date

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.51
1	1	Z	-2.02
1	1	Y	0.77
1	2	X	0.51
1	2	Z	-2.02
1	3	X	0.51
1	3	Z	-2.02
1	4	X	0.51
1	4	Z	-2.02
1	5	X	0.51
1	5	Z	-2.02
1	6	X	0.51
1	6	Z	-2.02
1	7	X	0.51
1	7	Z	-2.02
1	8	X	0.51
1	8	Z	-2.02
1	9	X	0.51
1	9	Z	-2.02
1	10	X	0.51
1	10	Z	-2.02
1	11	X	0.51
1	11	Z	-2.02
1	11	Y	-0.77
2	1	X	0.56
2	1	Z	-2.23
2	1	Y	0.77
2	2	X	0.56
2	2	Z	-2.23
2	3	X	0.56
2	3	Z	-2.23
2	4	X	0.56
2	4	Z	-2.23
2	5	X	0.56
2	5	Z	-2.23
2	6	X	0.56
2	6	Z	-2.23
2	7	X	0.56
2	7	Z	-2.23
2	8	X	0.56
2	8	Z	-2.23
2	9	X	0.56
2	9	Z	-2.23
2	10	X	0.56
2	10	Z	-2.23
2	10	Y	-0.77

Units: US (English)

Design Code: AASHTO LRFD



Sheet #	192
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp			Date

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
 Load: Design Truck + Lane Load
 Number of loaded lanes = 3
 Contributing longitudinal length = 142.09 ft

Loadcase ID: BR4 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-587.86 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.51
1	1	Z	-2.02
1	1	Y	0.77
1	2	X	0.51
1	2	Z	-2.02
1	3	X	0.51
1	3	Z	-2.02
1	4	X	0.51
1	4	Z	-2.02
1	5	X	0.51
1	5	Z	-2.02
1	6	X	0.51
1	6	Z	-2.02
1	7	X	0.51
1	7	Z	-2.02
1	8	X	0.51
1	8	Z	-2.02

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 193
Job #

Program: LEAP® RC-PIER® V8i (SELECTseries 5) SE Client Licenses Designed KSM
Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 Date Sep/10/2013
www.bentley.com Phone: 1-800-778-4277 Checked
File Name: Pier12EB_Ped_A2.rcp Date

Line #	Bearing #	Dir	Load kips
1	9	X	0.51
1	9	Z	-2.02
1	10	X	0.51
1	10	Z	-2.02
1	11	X	0.51
1	11	Z	-2.02
1	11	Y	-0.77
2	1	X	0.56
2	1	Z	-2.23
2	1	Y	0.77
2	2	X	0.56
2	2	Z	-2.23
2	3	X	0.56
2	3	Z	-2.23
2	4	X	0.56
2	4	Z	-2.23
2	5	X	0.56
2	5	Z	-2.23
2	6	X	0.56
2	6	Z	-2.23
2	7	X	0.56
2	7	Z	-2.23
2	8	X	0.56
2	8	Z	-2.23
2	9	X	0.56
2	9	Z	-2.23
2	10	X	0.56
2	10	Z	-2.23
2	10	Y	-0.77

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
Load: Design Truck + Lane Load
Number of loaded lanes = 3
Contributing longitudinal length = 142.09 ft

Loadcase ID: BR5 Name:

Multiplier = 1.000



Sheet # 194
Job #

Program: LEAP® RC-PIER® V8i (SELECTseries 5) SE Client Licenses Designed KSM
Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 Date Sep/10/2013
www.bentley.com Phone: 1-800-778-4277 Checked
File Name: Pier12EB_Ped_A2.rcp Date

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-899.08 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.78
1	1	Z	-3.09
1	1	Y	1.17
1	2	X	0.78
1	2	Z	-3.09
1	3	X	0.78
1	3	Z	-3.09
1	4	X	0.78
1	4	Z	-3.09
1	5	X	0.78
1	5	Z	-3.09
1	6	X	0.78
1	6	Z	-3.09
1	7	X	0.78
1	7	Z	-3.09
1	8	X	0.78
1	8	Z	-3.09
1	9	X	0.78
1	9	Z	-3.09
1	10	X	0.78
1	10	Z	-3.09
1	11	X	0.78
1	11	Z	-3.09
1	11	Y	-1.17
2	1	X	0.86
2	1	Z	-3.40
2	1	Y	1.17
2	2	X	0.86
2	2	Z	-3.40
2	3	X	0.86
2	3	Z	-3.40
2	4	X	0.86
2	4	Z	-3.40
2	5	X	0.86
2	5	Z	-3.40
2	6	X	0.86
2	6	Z	-3.40



Sheet # 195
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp	Date		

Line #	Bearing #	Dir	Load kips
2	7	X	0.86
2	7	Z	-3.40
2	8	X	0.86
2	8	Z	-3.40
2	9	X	0.86
2	9	Z	-3.40
2	10	X	0.86
2	10	Z	-3.40
2	10	Y	-1.17

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
Load: Design Truck + Lane Load
Number of loaded lanes = 6
Contributing longitudinal length = 142.09 ft

Loadcase ID: BR6 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-461.07 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.40
1	1	Z	-1.59
1	1	Y	0.60
1	2	X	0.40



Sheet # 196
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp	Date		

Line #	Bearing #	Dir	Load kips
1	2	Z	-1.59
1	3	X	0.40
1	3	Z	-1.59
1	4	X	0.40
1	4	Z	-1.59
1	5	X	0.40
1	5	Z	-1.59
1	6	X	0.40
1	6	Z	-1.59
1	7	X	0.40
1	7	Z	-1.59
1	8	X	0.40
1	8	Z	-1.59
1	9	X	0.40
1	9	Z	-1.59
1	10	X	0.40
1	10	Z	-1.59
1	11	X	0.40
1	11	Z	-1.59
1	11	Y	-0.60
2	1	X	0.44
2	1	Z	-1.75
2	1	Y	0.60
2	2	X	0.44
2	2	Z	-1.75
2	3	X	0.44
2	3	Z	-1.75
2	4	X	0.44
2	4	Z	-1.75
2	5	X	0.44
2	5	Z	-1.75
2	6	X	0.44
2	6	Z	-1.75
2	7	X	0.44
2	7	Z	-1.75
2	8	X	0.44
2	8	Z	-1.75
2	9	X	0.44
2	9	Z	-1.75
2	10	X	0.44
2	10	Z	-1.75
2	10	Y	-0.60

Auto generation details:



Sheet # 197

Job #

Program: LEAP® RC-PIER® V8i (SELECTseries 5)

SE Client Licenses

Designed KSM

Version: 12.01.00.57

Copyright © Bentley Systems, Inc. 2012

Date Sep/10/2013

www.bentley.com Phone: 1-800-778-4277

Checked

File Name: Pier12EB_Ped_A2.rcp

Date

Selected Live Load for BR generation

Load: Design Truck
 Load: Design Truck + Lane Load
 Number of loaded lanes = 2
 Contributing longitudinal length = 142.09 ft

Loadcase ID: BR7 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-587.86 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.51
1	1	Z	-2.02
1	1	Y	0.77
1	2	X	0.51
1	2	Z	-2.02
1	3	X	0.51
1	3	Z	-2.02
1	4	X	0.51
1	4	Z	-2.02
1	5	X	0.51
1	5	Z	-2.02
1	6	X	0.51
1	6	Z	-2.02
1	7	X	0.51
1	7	Z	-2.02
1	8	X	0.51
1	8	Z	-2.02
1	9	X	0.51
1	9	Z	-2.02
1	10	X	0.51
1	10	Z	-2.02
1	11	X	0.51
1	11	Z	-2.02
1	11	Y	-0.77

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 198

Job #

Program: LEAP® RC-PIER® V8i (SELECTseries 5)

SE Client Licenses

Designed KSM

Version: 12.01.00.57

Copyright © Bentley Systems, Inc. 2012

Date Sep/10/2013

www.bentley.com Phone: 1-800-778-4277

Checked

File Name: Pier12EB_Ped_A2.rcp

Date

Line #	Bearing #	Dir	Load kips
2	1	X	0.56
2	1	Z	-2.23
2	1	Y	0.77
2	2	X	0.56
2	2	Z	-2.23
2	3	X	0.56
2	3	Z	-2.23
2	4	X	0.56
2	4	Z	-2.23
2	5	X	0.56
2	5	Z	-2.23
2	6	X	0.56
2	6	Z	-2.23
2	7	X	0.56
2	7	Z	-2.23
2	8	X	0.56
2	8	Z	-2.23
2	9	X	0.56
2	9	Z	-2.23
2	10	X	0.56
2	10	Z	-2.23
2	10	Y	-0.77

Auto generation details:**Selected Live Load for BR generation**

Load: Design Truck
 Load: Design Truck + Lane Load
 Number of loaded lanes = 3
 Contributing longitudinal length = 142.09 ft

Loadcase ID: BR8 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-461.07 k-ft	0.50		

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 199

Job #

Program: LEAP® RC-PIER® V8i (SELECTseries 5)

SE Client Licenses

Designed KSM

Version: 12.01.00.57

Copyright © Bentley Systems, Inc. 2012

Date Sep/10/2013

www.bentley.com Phone: 1-800-778-4277

Checked

File Name: Pier12EB_Ped_A2.rcp

Date

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.40
1	1	Z	-1.59
1	1	Y	0.60
1	2	X	0.40
1	2	Z	-1.59
1	3	X	0.40
1	3	Z	-1.59
1	4	X	0.40
1	4	Z	-1.59
1	5	X	0.40
1	5	Z	-1.59
1	6	X	0.40
1	6	Z	-1.59
1	7	X	0.40
1	7	Z	-1.59
1	8	X	0.40
1	8	Z	-1.59
1	9	X	0.40
1	9	Z	-1.59
1	10	X	0.40
1	10	Z	-1.59
1	11	X	0.40
1	11	Z	-1.59
1	11	Y	-0.60
2	1	X	0.44
2	1	Z	-1.75
2	1	Y	0.60
2	2	X	0.44
2	2	Z	-1.75
2	3	X	0.44
2	3	Z	-1.75
2	4	X	0.44
2	4	Z	-1.75
2	5	X	0.44
2	5	Z	-1.75
2	6	X	0.44
2	6	Z	-1.75
2	7	X	0.44
2	7	Z	-1.75
2	8	X	0.44
2	8	Z	-1.75
2	9	X	0.44
2	9	Z	-1.75

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 200

Job #

Program: LEAP® RC-PIER® V8i (SELECTseries 5)

SE Client Licenses

Designed KSM

Version: 12.01.00.57

Copyright © Bentley Systems, Inc. 2012

Date Sep/10/2013

www.bentley.com Phone: 1-800-778-4277

Checked

File Name: Pier12EB_Ped_A2.rcp

Date

Line #	Bearing #	Dir	Load kips
2	10	X	0.44
2	10	Z	-1.75
2	10	Y	-0.60

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
 Load: Design Truck + Lane Load
 Number of loaded lanes = 2
 Contributing longitudinal length = 142.09 ft

Loadcase ID: BR9 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-899.08 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.78
1	1	Z	-3.09
1	1	Y	1.17
1	2	X	0.78
1	2	Z	-3.09
1	3	X	0.78
1	3	Z	-3.09
1	4	X	0.78
1	4	Z	-3.09
1	5	X	0.78

Units: US (English)

Design Code: AASHTO LRFD



Sheet #	201
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier12EB_Ped_A2.rcp	Checked		
		Date		

Line #	Bearing #	Dir	Load kips
1	5	Z	-3.09
1	6	X	0.78
1	6	Z	-3.09
1	7	X	0.78
1	7	Z	-3.09
1	8	X	0.78
1	8	Z	-3.09
1	9	X	0.78
1	9	Z	-3.09
1	10	X	0.78
1	10	Z	-3.09
1	11	X	0.78
1	11	Z	-3.09
1	11	Y	-1.17
2	1	X	0.86
2	1	Z	-3.40
2	1	Y	1.17
2	2	X	0.86
2	2	Z	-3.40
2	3	X	0.86
2	3	Z	-3.40
2	4	X	0.86
2	4	Z	-3.40
2	5	X	0.86
2	5	Z	-3.40
2	6	X	0.86
2	6	Z	-3.40
2	7	X	0.86
2	7	Z	-3.40
2	8	X	0.86
2	8	Z	-3.40
2	9	X	0.86
2	9	Z	-3.40
2	10	X	0.86
2	10	Z	-3.40
2	10	Y	-1.17

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
 Load: Design Truck + Lane Load
 Number of loaded lanes = 6



Sheet #	202
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier12EB_Ped_A2.rcp	Checked		
		Date		

Contributing longitudinal length = 142.09 ft

Loadcase ID: BR10 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-899.08 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.78
1	1	Z	-3.09
1	1	Y	1.17
1	2	X	0.78
1	2	Z	-3.09
1	3	X	0.78
1	3	Z	-3.09
1	4	X	0.78
1	4	Z	-3.09
1	5	X	0.78
1	5	Z	-3.09
1	6	X	0.78
1	6	Z	-3.09
1	7	X	0.78
1	7	Z	-3.09
1	8	X	0.78
1	8	Z	-3.09
1	9	X	0.78
1	9	Z	-3.09
1	10	X	0.78
1	10	Z	-3.09
1	11	X	0.78
1	11	Z	-3.09
1	11	Y	-1.17
2	1	X	0.86
2	1	Z	-3.40
2	1	Y	1.17
2	2	X	0.86



Sheet #	203
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM	
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013	
		www.bentley.com	Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp	Date			

Line #	Bearing #	Dir	Load kips
2	2	Z	-3.40
2	3	X	0.86
2	3	Z	-3.40
2	4	X	0.86
2	4	Z	-3.40
2	5	X	0.86
2	5	Z	-3.40
2	6	X	0.86
2	6	Z	-3.40
2	7	X	0.86
2	7	Z	-3.40
2	8	X	0.86
2	8	Z	-3.40
2	9	X	0.86
2	9	Z	-3.40
2	10	X	0.86
2	10	Z	-3.40
2	10	Y	-1.17

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
 Load: Design Truck + Lane Load
 Number of loaded lanes = 6
 Contributing longitudinal length = 142.09 ft

Loadcase ID: BR11 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-587.86 k-ft	0.50		



Sheet #	204
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM	
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013	
		www.bentley.com	Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp	Date			

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.51
1	1	Z	-2.02
1	1	Y	0.77
1	2	X	0.51
1	2	Z	-2.02
1	3	X	0.51
1	3	Z	-2.02
1	4	X	0.51
1	4	Z	-2.02
1	5	X	0.51
1	5	Z	-2.02
1	6	X	0.51
1	6	Z	-2.02
1	7	X	0.51
1	7	Z	-2.02
1	8	X	0.51
1	8	Z	-2.02
1	9	X	0.51
1	9	Z	-2.02
1	10	X	0.51
1	10	Z	-2.02
1	11	X	0.51
1	11	Z	-2.02
1	11	Y	-0.77
2	1	X	0.56
2	1	Z	-2.23
2	1	Y	0.77
2	2	X	0.56
2	2	Z	-2.23
2	3	X	0.56
2	3	Z	-2.23
2	4	X	0.56
2	4	Z	-2.23
2	5	X	0.56
2	5	Z	-2.23
2	6	X	0.56
2	6	Z	-2.23
2	7	X	0.56
2	7	Z	-2.23
2	8	X	0.56
2	8	Z	-2.23
2	9	X	0.56
2	9	Z	-2.23
2	10	X	0.56
2	10	Z	-2.23
2	10	Y	-0.77



Sheet # 205

Job #

Program: LEAP® RC-PIER® V8i (SELECTseries 5)

SE Client Licenses

Designed KSM

Version: 12.01.00.57

Copyright © Bentley Systems, Inc. 2012

Date Sep/10/2013

www.bentley.com Phone: 1-800-778-4277

Checked

File Name: Pier12EB_Ped_A2.rcp

Date

Auto generation details:**Selected Live Load for BR generation**

Load: Design Truck
 Load: Design Truck + Lane Load
 Number of loaded lanes = 3
 Contributing longitudinal length = 142.09 ft

Loadcase ID: BR12 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-899.08 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.78
1	1	Z	-3.09
1	1	Y	1.17
1	2	X	0.78
1	2	Z	-3.09
1	3	X	0.78
1	3	Z	-3.09
1	4	X	0.78
1	4	Z	-3.09
1	5	X	0.78
1	5	Z	-3.09
1	6	X	0.78
1	6	Z	-3.09
1	7	X	0.78
1	7	Z	-3.09
1	8	X	0.78
1	8	Z	-3.09
1	9	X	0.78

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 206

Job #

Program: LEAP® RC-PIER® V8i (SELECTseries 5)

SE Client Licenses

Designed KSM

Version: 12.01.00.57

Copyright © Bentley Systems, Inc. 2012

Date Sep/10/2013

www.bentley.com Phone: 1-800-778-4277

Checked

File Name: Pier12EB_Ped_A2.rcp

Date

Line #	Bearing #	Dir	Load kips
1	9	Z	-3.09
1	10	X	0.78
1	10	Z	-3.09
1	11	X	0.78
1	11	Z	-3.09
1	11	Y	-1.17
2	1	X	0.86
2	1	Z	-3.40
2	1	Y	1.17
2	2	X	0.86
2	2	Z	-3.40
2	3	X	0.86
2	3	Z	-3.40
2	4	X	0.86
2	4	Z	-3.40
2	5	X	0.86
2	5	Z	-3.40
2	6	X	0.86
2	6	Z	-3.40
2	7	X	0.86
2	7	Z	-3.40
2	8	X	0.86
2	8	Z	-3.40
2	9	X	0.86
2	9	Z	-3.40
2	10	X	0.86
2	10	Z	-3.40
2	10	Y	-1.17

Auto generation details:**Selected Live Load for BR generation**

Load: Design Truck
 Load: Design Truck + Lane Load
 Number of loaded lanes = 6
 Contributing longitudinal length = 142.09 ft

Loadcase ID: BR13 Name:

Multiplier = 1.000

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 207
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
File Name:		www.bentley.com	Phone: 1-800-778-4277	Checked
			Date	

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-587.86 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.51
1	1	Z	-2.02
1	1	Y	0.77
1	2	X	0.51
1	2	Z	-2.02
1	3	X	0.51
1	3	Z	-2.02
1	4	X	0.51
1	4	Z	-2.02
1	5	X	0.51
1	5	Z	-2.02
1	6	X	0.51
1	6	Z	-2.02
1	7	X	0.51
1	7	Z	-2.02
1	8	X	0.51
1	8	Z	-2.02
1	9	X	0.51
1	9	Z	-2.02
1	10	X	0.51
1	10	Z	-2.02
1	11	X	0.51
1	11	Z	-2.02
1	11	Y	-0.77
2	1	X	0.56
2	1	Z	-2.23
2	1	Y	0.77
2	2	X	0.56
2	2	Z	-2.23
2	3	X	0.56
2	3	Z	-2.23
2	4	X	0.56
2	4	Z	-2.23
2	5	X	0.56
2	5	Z	-2.23
2	6	X	0.56
2	6	Z	-2.23

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 208
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
File Name:		www.bentley.com	Phone: 1-800-778-4277	Checked
			Date	

Line #	Bearing #	Dir	Load kips
2	7	X	0.56
2	7	Z	-2.23
2	8	X	0.56
2	8	Z	-2.23
2	9	X	0.56
2	9	Z	-2.23
2	10	X	0.56
2	10	Z	-2.23
2	10	Y	-0.77

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
Load: Design Truck + Lane Load
Number of loaded lanes = 3
Contributing longitudinal length = 142.09 ft

Loadcase ID: BR14 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-899.08 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.78
1	1	Z	-3.09
1	1	Y	1.17
1	2	X	0.78

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 209
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier12EB_Ped_A2.rcp	Checked	Date	

Line #	Bearing #	Dir	Load kips
1	2	Z	-3.09
1	3	X	0.78
1	3	Z	-3.09
1	4	X	0.78
1	4	Z	-3.09
1	5	X	0.78
1	5	Z	-3.09
1	6	X	0.78
1	6	Z	-3.09
1	7	X	0.78
1	7	Z	-3.09
1	8	X	0.78
1	8	Z	-3.09
1	9	X	0.78
1	9	Z	-3.09
1	10	X	0.78
1	10	Z	-3.09
1	11	X	0.78
1	11	Z	-3.09
1	11	Y	-1.17
2	1	X	0.86
2	1	Z	-3.40
2	1	Y	1.17
2	2	X	0.86
2	2	Z	-3.40
2	3	X	0.86
2	3	Z	-3.40
2	4	X	0.86
2	4	Z	-3.40
2	5	X	0.86
2	5	Z	-3.40
2	6	X	0.86
2	6	Z	-3.40
2	7	X	0.86
2	7	Z	-3.40
2	8	X	0.86
2	8	Z	-3.40
2	9	X	0.86
2	9	Z	-3.40
2	10	X	0.86
2	10	Z	-3.40
2	10	Y	-1.17

Auto generation details:



Sheet # 210
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier12EB_Ped_A2.rcp	Checked	Date	

Selected Live Load for BR generation

Load: Design Truck
Load: Design Truck + Lane Load
Number of loaded lanes = 6
Contributing longitudinal length = 142.09 ft

Loadcase ID: BR15 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-899.08 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.78
1	1	Z	-3.09
1	1	Y	1.17
1	2	X	0.78
1	2	Z	-3.09
1	3	X	0.78
1	3	Z	-3.09
1	4	X	0.78
1	4	Z	-3.09
1	5	X	0.78
1	5	Z	-3.09
1	6	X	0.78
1	6	Z	-3.09
1	7	X	0.78
1	7	Z	-3.09
1	8	X	0.78
1	8	Z	-3.09
1	9	X	0.78
1	9	Z	-3.09
1	10	X	0.78
1	10	Z	-3.09
1	11	X	0.78
1	11	Z	-3.09
1	11	Y	-1.17

		Sheet #	211
		Job #	
Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277
File Name:	Pier12EB_Ped_A2.rcp	Checked	Date

Line #	Bearing #	Dir	Load kips
2	1	X	0.86
2	1	Z	-3.40
2	1	Y	1.17
2	2	X	0.86
2	2	Z	-3.40
2	3	X	0.86
2	3	Z	-3.40
2	4	X	0.86
2	4	Z	-3.40
2	5	X	0.86
2	5	Z	-3.40
2	6	X	0.86
2	6	Z	-3.40
2	7	X	0.86
2	7	Z	-3.40
2	8	X	0.86
2	8	Z	-3.40
2	9	X	0.86
2	9	Z	-3.40
2	10	X	0.86
2	10	Z	-3.40
2	10	Y	-1.17

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
 Load: Design Truck + Lane Load
 Number of loaded lanes = 6
 Contributing longitudinal length = 142.09 ft

Loadcase ID: BR16 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-587.86 k-ft	0.50		

		Sheet #	212
		Job #	
Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277
File Name:	Pier12EB_Ped_A2.rcp	Checked	Date

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.51
1	1	Z	-2.02
1	1	Y	0.77
1	2	X	0.51
1	2	Z	-2.02
1	3	X	0.51
1	3	Z	-2.02
1	4	X	0.51
1	4	Z	-2.02
1	5	X	0.51
1	5	Z	-2.02
1	6	X	0.51
1	6	Z	-2.02
1	7	X	0.51
1	7	Z	-2.02
1	8	X	0.51
1	8	Z	-2.02
1	9	X	0.51
1	9	Z	-2.02
1	10	X	0.51
1	10	Z	-2.02
1	11	X	0.51
1	11	Z	-2.02
1	11	Y	-0.77
2	1	X	0.56
2	1	Z	-2.23
2	1	Y	0.77
2	2	X	0.56
2	2	Z	-2.23
2	3	X	0.56
2	3	Z	-2.23
2	4	X	0.56
2	4	Z	-2.23
2	5	X	0.56
2	5	Z	-2.23
2	6	X	0.56
2	6	Z	-2.23
2	7	X	0.56
2	7	Z	-2.23
2	8	X	0.56
2	8	Z	-2.23
2	9	X	0.56
2	9	Z	-2.23



Sheet #	213
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp	Date		

Line #	Bearing #	Dir	Load kips
2	10	X	0.56
2	10	Z	-2.23
2	10	Y	-0.77

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
 Load: Design Truck + Lane Load
 Number of loaded lanes = 3
 Contributing longitudinal length = 142.09 ft

Loadcase ID: BR17 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-899.08 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.78
1	1	Z	-3.09
1	1	Y	1.17
1	2	X	0.78
1	2	Z	-3.09
1	3	X	0.78
1	3	Z	-3.09
1	4	X	0.78
1	4	Z	-3.09
1	5	X	0.78



Sheet #	214
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp	Date		

Line #	Bearing #	Dir	Load kips
1	5	Z	-3.09
1	6	X	0.78
1	6	Z	-3.09
1	7	X	0.78
1	7	Z	-3.09
1	8	X	0.78
1	8	Z	-3.09
1	9	X	0.78
1	9	Z	-3.09
1	10	X	0.78
1	10	Z	-3.09
1	11	X	0.78
1	11	Z	-3.09
1	11	Y	-1.17
2	1	X	0.86
2	1	Z	-3.40
2	1	Y	1.17
2	2	X	0.86
2	2	Z	-3.40
2	3	X	0.86
2	3	Z	-3.40
2	4	X	0.86
2	4	Z	-3.40
2	5	X	0.86
2	5	Z	-3.40
2	6	X	0.86
2	6	Z	-3.40
2	7	X	0.86
2	7	Z	-3.40
2	8	X	0.86
2	8	Z	-3.40
2	9	X	0.86
2	9	Z	-3.40
2	10	X	0.86
2	10	Z	-3.40
2	10	Y	-1.17

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
 Load: Design Truck + Lane Load
 Number of loaded lanes = 6



Sheet #	215
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp			Date

Contributing longitudinal length = 142.09 ft

Loadcase ID: BR18 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-587.86 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.51
1	1	Z	-2.02
1	1	Y	0.77
1	2	X	0.51
1	2	Z	-2.02
1	3	X	0.51
1	3	Z	-2.02
1	4	X	0.51
1	4	Z	-2.02
1	5	X	0.51
1	5	Z	-2.02
1	6	X	0.51
1	6	Z	-2.02
1	7	X	0.51
1	7	Z	-2.02
1	8	X	0.51
1	8	Z	-2.02
1	9	X	0.51
1	9	Z	-2.02
1	10	X	0.51
1	10	Z	-2.02
1	11	X	0.51
1	11	Z	-2.02
1	11	Y	-0.77
2	1	X	0.56
2	1	Z	-2.23
2	1	Y	0.77
2	2	X	0.56



Sheet #	216
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp			Date

Line #	Bearing #	Dir	Load kips
2	2	Z	-2.23
2	3	X	0.56
2	3	Z	-2.23
2	4	X	0.56
2	4	Z	-2.23
2	5	X	0.56
2	5	Z	-2.23
2	6	X	0.56
2	6	Z	-2.23
2	7	X	0.56
2	7	Z	-2.23
2	8	X	0.56
2	8	Z	-2.23
2	9	X	0.56
2	9	Z	-2.23
2	10	X	0.56
2	10	Z	-2.23
2	10	Y	-0.77

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
 Load: Design Truck + Lane Load
 Number of loaded lanes = 3
 Contributing longitudinal length = 142.09 ft

Loadcase ID: BR19 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-587.86 k-ft	0.50		



Sheet #	217
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier12EB_Ped_A2.rcp	Checked		
		Date		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.51
1	1	Z	-2.02
1	1	Y	0.77
1	2	X	0.51
1	2	Z	-2.02
1	3	X	0.51
1	3	Z	-2.02
1	4	X	0.51
1	4	Z	-2.02
1	5	X	0.51
1	5	Z	-2.02
1	6	X	0.51
1	6	Z	-2.02
1	7	X	0.51
1	7	Z	-2.02
1	8	X	0.51
1	8	Z	-2.02
1	9	X	0.51
1	9	Z	-2.02
1	10	X	0.51
1	10	Z	-2.02
1	11	X	0.51
1	11	Z	-2.02
1	11	Y	-0.77
2	1	X	0.56
2	1	Z	-2.23
2	1	Y	0.77
2	2	X	0.56
2	2	Z	-2.23
2	3	X	0.56
2	3	Z	-2.23
2	4	X	0.56
2	4	Z	-2.23
2	5	X	0.56
2	5	Z	-2.23
2	6	X	0.56
2	6	Z	-2.23
2	7	X	0.56
2	7	Z	-2.23
2	8	X	0.56
2	8	Z	-2.23
2	9	X	0.56
2	9	Z	-2.23
2	10	X	0.56
2	10	Z	-2.23
2	10	Y	-0.77



Sheet #	218
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier12EB_Ped_A2.rcp	Checked		
		Date		

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
 Load: Design Truck + Lane Load
 Number of loaded lanes = 3
 Contributing longitudinal length = 142.09 ft

Loadcase ID: BR20 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-899.08 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.78
1	1	Z	-3.09
1	1	Y	1.17
1	2	X	0.78
1	2	Z	-3.09
1	3	X	0.78
1	3	Z	-3.09
1	4	X	0.78
1	4	Z	-3.09
1	5	X	0.78
1	5	Z	-3.09
1	6	X	0.78
1	6	Z	-3.09
1	7	X	0.78
1	7	Z	-3.09
1	8	X	0.78
1	8	Z	-3.09
1	9	X	0.78



Sheet #	219
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier12EB_Ped_A2.rcp	Checked		
		Date		

Line #	Bearing #	Dir	Load kips
1	9	Z	-3.09
1	10	X	0.78
1	10	Z	-3.09
1	11	X	0.78
1	11	Z	-3.09
1	11	Y	-1.17
2	1	X	0.86
2	1	Z	-3.40
2	1	Y	1.17
2	2	X	0.86
2	2	Z	-3.40
2	3	X	0.86
2	3	Z	-3.40
2	4	X	0.86
2	4	Z	-3.40
2	5	X	0.86
2	5	Z	-3.40
2	6	X	0.86
2	6	Z	-3.40
2	7	X	0.86
2	7	Z	-3.40
2	8	X	0.86
2	8	Z	-3.40
2	9	X	0.86
2	9	Z	-3.40
2	10	X	0.86
2	10	Z	-3.40
2	10	Y	-1.17

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
 Load: Design Truck + Lane Load
 Number of loaded lanes = 6
 Contributing longitudinal length = 142.09 ft

Loadcase ID: BR21 Name:
 Multiplier = 1.000



Sheet #	220
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier12EB_Ped_A2.rcp	Checked		
		Date		

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-587.86 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.51
1	1	Z	-2.02
1	1	Y	0.77
1	2	X	0.51
1	2	Z	-2.02
1	3	X	0.51
1	3	Z	-2.02
1	4	X	0.51
1	4	Z	-2.02
1	5	X	0.51
1	5	Z	-2.02
1	6	X	0.51
1	6	Z	-2.02
1	7	X	0.51
1	7	Z	-2.02
1	8	X	0.51
1	8	Z	-2.02
1	9	X	0.51
1	9	Z	-2.02
1	10	X	0.51
1	10	Z	-2.02
1	11	X	0.51
1	11	Z	-2.02
1	11	Y	-0.77
2	1	X	0.56
2	1	Z	-2.23
2	1	Y	0.77
2	2	X	0.56
2	2	Z	-2.23
2	3	X	0.56
2	3	Z	-2.23
2	4	X	0.56
2	4	Z	-2.23
2	5	X	0.56
2	5	Z	-2.23
2	6	X	0.56
2	6	Z	-2.23



Sheet #	221
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp	Date		

Line #	Bearing #	Dir	Load kips
2	7	X	0.56
2	7	Z	-2.23
2	8	X	0.56
2	8	Z	-2.23
2	9	X	0.56
2	9	Z	-2.23
2	10	X	0.56
2	10	Z	-2.23
2	10	Y	-0.77

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
 Load: Design Truck + Lane Load
 Number of loaded lanes = 3
 Contributing longitudinal length = 142.09 ft

Loadcase ID: BR22 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-461.07 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.40
1	1	Z	-1.59
1	1	Y	0.60
1	2	X	0.40

Units: US (English)

Design Code: AASHTO LRFD



Sheet #	222
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp	Date		

Line #	Bearing #	Dir	Load kips
1	2	Z	-1.59
1	3	X	0.40
1	3	Z	-1.59
1	4	X	0.40
1	4	Z	-1.59
1	5	X	0.40
1	5	Z	-1.59
1	6	X	0.40
1	6	Z	-1.59
1	7	X	0.40
1	7	Z	-1.59
1	8	X	0.40
1	8	Z	-1.59
1	9	X	0.40
1	9	Z	-1.59
1	10	X	0.40
1	10	Z	-1.59
1	11	X	0.40
1	11	Z	-1.59
1	11	Y	-0.60
2	1	X	0.44
2	1	Z	-1.75
2	1	Y	0.60
2	2	X	0.44
2	2	Z	-1.75
2	3	X	0.44
2	3	Z	-1.75
2	4	X	0.44
2	4	Z	-1.75
2	5	X	0.44
2	5	Z	-1.75
2	6	X	0.44
2	6	Z	-1.75
2	7	X	0.44
2	7	Z	-1.75
2	8	X	0.44
2	8	Z	-1.75
2	9	X	0.44
2	9	Z	-1.75
2	10	X	0.44
2	10	Z	-1.75
2	10	Y	-0.60

Auto generation details:

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 223

Job #

Program: LEAP® RC-PIER® V8i (SELECTseries 5)

SE Client Licenses

Designed KSM

Version: 12.01.00.57

Copyright © Bentley Systems, Inc. 2012

Date Sep/10/2013

www.bentley.com Phone: 1-800-778-4277

Checked

File Name: Pier12EB_Ped_A2.rcp

Date

Selected Live Load for BR generation

Load: Design Truck
 Load: Design Truck + Lane Load
 Number of loaded lanes = 2
 Contributing longitudinal length = 142.09 ft

Loadcase ID: BR23 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-587.86 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.51
1	1	Z	-2.02
1	1	Y	0.77
1	2	X	0.51
1	2	Z	-2.02
1	3	X	0.51
1	3	Z	-2.02
1	4	X	0.51
1	4	Z	-2.02
1	5	X	0.51
1	5	Z	-2.02
1	6	X	0.51
1	6	Z	-2.02
1	7	X	0.51
1	7	Z	-2.02
1	8	X	0.51
1	8	Z	-2.02
1	9	X	0.51
1	9	Z	-2.02
1	10	X	0.51
1	10	Z	-2.02
1	11	X	0.51
1	11	Z	-2.02
1	11	Y	-0.77

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 224

Job #

Program: LEAP® RC-PIER® V8i (SELECTseries 5)

SE Client Licenses

Designed KSM

Version: 12.01.00.57

Copyright © Bentley Systems, Inc. 2012

Date Sep/10/2013

www.bentley.com Phone: 1-800-778-4277

Checked

File Name: Pier12EB_Ped_A2.rcp

Date

Line #	Bearing #	Dir	Load kips
2	1	X	0.56
2	1	Z	-2.23
2	1	Y	0.77
2	2	X	0.56
2	2	Z	-2.23
2	3	X	0.56
2	3	Z	-2.23
2	4	X	0.56
2	4	Z	-2.23
2	5	X	0.56
2	5	Z	-2.23
2	6	X	0.56
2	6	Z	-2.23
2	7	X	0.56
2	7	Z	-2.23
2	8	X	0.56
2	8	Z	-2.23
2	9	X	0.56
2	9	Z	-2.23
2	10	X	0.56
2	10	Z	-2.23
2	10	Y	-0.77

Auto generation details:**Selected Live Load for BR generation**

Load: Design Truck
 Load: Design Truck + Lane Load
 Number of loaded lanes = 3
 Contributing longitudinal length = 142.09 ft

Loadcase ID: BR24 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-587.86 k-ft	0.50		

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 225
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp			Date

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.51
1	1	Z	-2.02
1	1	Y	0.77
1	2	X	0.51
1	2	Z	-2.02
1	3	X	0.51
1	3	Z	-2.02
1	4	X	0.51
1	4	Z	-2.02
1	5	X	0.51
1	5	Z	-2.02
1	6	X	0.51
1	6	Z	-2.02
1	7	X	0.51
1	7	Z	-2.02
1	8	X	0.51
1	8	Z	-2.02
1	9	X	0.51
1	9	Z	-2.02
1	10	X	0.51
1	10	Z	-2.02
1	11	X	0.51
1	11	Z	-2.02
1	11	Y	-0.77
2	1	X	0.56
2	1	Z	-2.23
2	1	Y	0.77
2	2	X	0.56
2	2	Z	-2.23
2	3	X	0.56
2	3	Z	-2.23
2	4	X	0.56
2	4	Z	-2.23
2	5	X	0.56
2	5	Z	-2.23
2	6	X	0.56
2	6	Z	-2.23
2	7	X	0.56
2	7	Z	-2.23
2	8	X	0.56
2	8	Z	-2.23
2	9	X	0.56
2	9	Z	-2.23

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 226
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp			Date

Line #	Bearing #	Dir	Load kips
2	10	X	0.56
2	10	Z	-2.23
2	10	Y	-0.77

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
Load: Design Truck + Lane Load
Number of loaded lanes = 3
Contributing longitudinal length = 142.09 ft

Loadcase ID: BR25 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-276.64 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.24
1	1	Z	-0.95
1	1	Y	0.36
1	2	X	0.24
1	2	Z	-0.95
1	3	X	0.24
1	3	Z	-0.95
1	4	X	0.24
1	4	Z	-0.95
1	5	X	0.24

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 227
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
File Name:		www.bentley.com	Phone:	1-800-778-4277
File Name:		Pier12EB_Ped_A2.rcp	Checked	
File Name:		Pier12EB_Ped_A2.rcp	Date	

Line #	Bearing #	Dir	Load kips
1	5	Z	-0.95
1	6	X	0.24
1	6	Z	-0.95
1	7	X	0.24
1	7	Z	-0.95
1	8	X	0.24
1	8	Z	-0.95
1	9	X	0.24
1	9	Z	-0.95
1	10	X	0.24
1	10	Z	-0.95
1	11	X	0.24
1	11	Z	-0.95
1	11	Y	-0.36
2	1	X	0.26
2	1	Z	-1.05
2	1	Y	0.36
2	2	X	0.26
2	2	Z	-1.05
2	3	X	0.26
2	3	Z	-1.05
2	4	X	0.26
2	4	Z	-1.05
2	5	X	0.26
2	5	Z	-1.05
2	6	X	0.26
2	6	Z	-1.05
2	7	X	0.26
2	7	Z	-1.05
2	8	X	0.26
2	8	Z	-1.05
2	9	X	0.26
2	9	Z	-1.05
2	10	X	0.26
2	10	Z	-1.05
2	10	Y	-0.36

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
Load: Design Truck + Lane Load
Number of loaded lanes = 1

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 228
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
File Name:		www.bentley.com	Phone:	1-800-778-4277
File Name:		Pier12EB_Ped_A2.rcp	Checked	
File Name:		Pier12EB_Ped_A2.rcp	Date	

Contributing longitudinal length = 142.09 ft

Loadcase ID: BR26 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-461.07 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.40
1	1	Z	-1.59
1	1	Y	0.60
1	2	X	0.40
1	2	Z	-1.59
1	3	X	0.40
1	3	Z	-1.59
1	4	X	0.40
1	4	Z	-1.59
1	5	X	0.40
1	5	Z	-1.59
1	6	X	0.40
1	6	Z	-1.59
1	7	X	0.40
1	7	Z	-1.59
1	8	X	0.40
1	8	Z	-1.59
1	9	X	0.40
1	9	Z	-1.59
1	10	X	0.40
1	10	Z	-1.59
1	11	X	0.40
1	11	Z	-1.59
1	11	Y	-0.60
2	1	X	0.44
2	1	Z	-1.75
2	1	Y	0.60
2	2	X	0.44

Units: US (English)

Design Code: AASHTO LRFD



Sheet #	229
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp	Date		

Line #	Bearing #	Dir	Load kips
2	2	Z	-1.75
2	3	X	0.44
2	3	Z	-1.75
2	4	X	0.44
2	4	Z	-1.75
2	5	X	0.44
2	5	Z	-1.75
2	6	X	0.44
2	6	Z	-1.75
2	7	X	0.44
2	7	Z	-1.75
2	8	X	0.44
2	8	Z	-1.75
2	9	X	0.44
2	9	Z	-1.75
2	10	X	0.44
2	10	Z	-1.75
2	10	Y	-0.60

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
 Load: Design Truck + Lane Load
 Number of loaded lanes = 2
 Contributing longitudinal length = 142.09 ft

Loadcase ID: BR27 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-587.86 k-ft	0.50		



Sheet #	230
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp	Date		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.51
1	1	Z	-2.02
1	1	Y	0.77
1	2	X	0.51
1	2	Z	-2.02
1	3	X	0.51
1	3	Z	-2.02
1	4	X	0.51
1	4	Z	-2.02
1	5	X	0.51
1	5	Z	-2.02
1	6	X	0.51
1	6	Z	-2.02
1	7	X	0.51
1	7	Z	-2.02
1	8	X	0.51
1	8	Z	-2.02
1	9	X	0.51
1	9	Z	-2.02
1	10	X	0.51
1	10	Z	-2.02
1	11	X	0.51
1	11	Z	-2.02
1	11	Y	-0.77
2	1	X	0.56
2	1	Z	-2.23
2	1	Y	0.77
2	2	X	0.56
2	2	Z	-2.23
2	3	X	0.56
2	3	Z	-2.23
2	4	X	0.56
2	4	Z	-2.23
2	5	X	0.56
2	5	Z	-2.23
2	6	X	0.56
2	6	Z	-2.23
2	7	X	0.56
2	7	Z	-2.23
2	8	X	0.56
2	8	Z	-2.23
2	9	X	0.56
2	9	Z	-2.23
2	10	X	0.56
2	10	Z	-2.23
2	10	Y	-0.77



Sheet #	231
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp		Date	

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
 Load: Design Truck + Lane Load
 Number of loaded lanes = 3
 Contributing longitudinal length = 142.09 ft

Loadcase ID: BR28 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-587.86 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.51
1	1	Z	-2.02
1	1	Y	0.77
1	2	X	0.51
1	2	Z	-2.02
1	3	X	0.51
1	3	Z	-2.02
1	4	X	0.51
1	4	Z	-2.02
1	5	X	0.51
1	5	Z	-2.02
1	6	X	0.51
1	6	Z	-2.02
1	7	X	0.51
1	7	Z	-2.02
1	8	X	0.51
1	8	Z	-2.02
1	9	X	0.51



Sheet #	232
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp		Date	

Line #	Bearing #	Dir	Load kips
1	9	Z	-2.02
1	10	X	0.51
1	10	Z	-2.02
1	11	X	0.51
1	11	Z	-2.02
1	11	Y	-0.77
2	1	X	0.56
2	1	Z	-2.23
2	1	Y	0.77
2	2	X	0.56
2	2	Z	-2.23
2	3	X	0.56
2	3	Z	-2.23
2	4	X	0.56
2	4	Z	-2.23
2	5	X	0.56
2	5	Z	-2.23
2	6	X	0.56
2	6	Z	-2.23
2	7	X	0.56
2	7	Z	-2.23
2	8	X	0.56
2	8	Z	-2.23
2	9	X	0.56
2	9	Z	-2.23
2	10	X	0.56
2	10	Z	-2.23
2	10	Y	-0.77

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
 Load: Design Truck + Lane Load
 Number of loaded lanes = 3
 Contributing longitudinal length = 142.09 ft

Loadcase ID: BR29 Name:

Multiplier = 1.000



Sheet # 233
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
File Name:		www.bentley.com	Phone:	1-800-778-4277
File Name:		Pier12EB_Ped_A2.rcp	Checked	
File Name:		Pier12EB_Ped_A2.rcp	Date	

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-461.07 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.40
1	1	Z	-1.59
1	1	Y	0.60
1	2	X	0.40
1	2	Z	-1.59
1	3	X	0.40
1	3	Z	-1.59
1	4	X	0.40
1	4	Z	-1.59
1	5	X	0.40
1	5	Z	-1.59
1	6	X	0.40
1	6	Z	-1.59
1	7	X	0.40
1	7	Z	-1.59
1	8	X	0.40
1	8	Z	-1.59
1	9	X	0.40
1	9	Z	-1.59
1	10	X	0.40
1	10	Z	-1.59
1	11	X	0.40
1	11	Z	-1.59
1	11	Y	-0.60
2	1	X	0.44
2	1	Z	-1.75
2	1	Y	0.60
2	2	X	0.44
2	2	Z	-1.75
2	3	X	0.44
2	3	Z	-1.75
2	4	X	0.44
2	4	Z	-1.75
2	5	X	0.44
2	5	Z	-1.75
2	6	X	0.44
2	6	Z	-1.75

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 234
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
File Name:		www.bentley.com	Phone:	1-800-778-4277
File Name:		Pier12EB_Ped_A2.rcp	Checked	
File Name:		Pier12EB_Ped_A2.rcp	Date	

Line #	Bearing #	Dir	Load kips
2	7	X	0.44
2	7	Z	-1.75
2	8	X	0.44
2	8	Z	-1.75
2	9	X	0.44
2	9	Z	-1.75
2	10	X	0.44
2	10	Z	-1.75
2	10	Y	-0.60

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
Load: Design Truck + Lane Load
Number of loaded lanes = 2
Contributing longitudinal length = 142.09 ft

Loadcase ID: BR30 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-276.64 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.24
1	1	Z	-0.95
1	1	Y	0.36
1	2	X	0.24

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 235
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier12EB_Ped_A2.rcp	Checked	Date	

Line #	Bearing #	Dir	Load kips
1	2	Z	-0.95
1	3	X	0.24
1	3	Z	-0.95
1	4	X	0.24
1	4	Z	-0.95
1	5	X	0.24
1	5	Z	-0.95
1	6	X	0.24
1	6	Z	-0.95
1	7	X	0.24
1	7	Z	-0.95
1	8	X	0.24
1	8	Z	-0.95
1	9	X	0.24
1	9	Z	-0.95
1	10	X	0.24
1	10	Z	-0.95
1	11	X	0.24
1	11	Z	-0.95
1	11	Y	-0.36
2	1	X	0.26
2	1	Z	-1.05
2	1	Y	0.36
2	2	X	0.26
2	2	Z	-1.05
2	3	X	0.26
2	3	Z	-1.05
2	4	X	0.26
2	4	Z	-1.05
2	5	X	0.26
2	5	Z	-1.05
2	6	X	0.26
2	6	Z	-1.05
2	7	X	0.26
2	7	Z	-1.05
2	8	X	0.26
2	8	Z	-1.05
2	9	X	0.26
2	9	Z	-1.05
2	10	X	0.26
2	10	Z	-1.05
2	10	Y	-0.36

Auto generation details:



Sheet # 236
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier12EB_Ped_A2.rcp	Checked	Date	

Selected Live Load for BR generation

Load: Design Truck
Load: Design Truck + Lane Load
Number of loaded lanes = 1
Contributing longitudinal length = 142.09 ft

Loadcase ID: BR31 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-276.64 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.24
1	1	Z	-0.95
1	1	Y	0.36
1	2	X	0.24
1	2	Z	-0.95
1	3	X	0.24
1	3	Z	-0.95
1	4	X	0.24
1	4	Z	-0.95
1	5	X	0.24
1	5	Z	-0.95
1	6	X	0.24
1	6	Z	-0.95
1	7	X	0.24
1	7	Z	-0.95
1	8	X	0.24
1	8	Z	-0.95
1	9	X	0.24
1	9	Z	-0.95
1	10	X	0.24
1	10	Z	-0.95
1	11	X	0.24
1	11	Z	-0.95
1	11	Y	-0.36



Sheet #	237
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp	Date		

Line #	Bearing #	Dir	Load kips
2	1	X	0.26
2	1	Z	-1.05
2	1	Y	0.36
2	2	X	0.26
2	2	Z	-1.05
2	3	X	0.26
2	3	Z	-1.05
2	4	X	0.26
2	4	Z	-1.05
2	5	X	0.26
2	5	Z	-1.05
2	6	X	0.26
2	6	Z	-1.05
2	7	X	0.26
2	7	Z	-1.05
2	8	X	0.26
2	8	Z	-1.05
2	9	X	0.26
2	9	Z	-1.05
2	10	X	0.26
2	10	Z	-1.05
2	10	Y	-0.36

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
 Load: Design Truck + Lane Load
 Number of loaded lanes = 1
 Contributing longitudinal length = 142.09 ft

Loadcase ID: BR32 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-461.07 k-ft	0.50		



Sheet #	238
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp	Date		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.40
1	1	Z	-1.59
1	1	Y	0.60
1	2	X	0.40
1	2	Z	-1.59
1	3	X	0.40
1	3	Z	-1.59
1	4	X	0.40
1	4	Z	-1.59
1	5	X	0.40
1	5	Z	-1.59
1	6	X	0.40
1	6	Z	-1.59
1	7	X	0.40
1	7	Z	-1.59
1	8	X	0.40
1	8	Z	-1.59
1	9	X	0.40
1	9	Z	-1.59
1	10	X	0.40
1	10	Z	-1.59
1	11	X	0.40
1	11	Z	-1.59
1	11	Y	-0.60
2	1	X	0.44
2	1	Z	-1.75
2	2	X	0.44
2	2	Z	-1.75
2	3	X	0.44
2	3	Z	-1.75
2	4	X	0.44
2	4	Z	-1.75
2	5	X	0.44
2	5	Z	-1.75
2	6	X	0.44
2	6	Z	-1.75
2	7	X	0.44
2	7	Z	-1.75
2	8	X	0.44
2	8	Z	-1.75
2	9	X	0.44
2	9	Z	-1.75



Sheet #	239
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp	Date		

Line #	Bearing #	Dir	Load kips
2	10	X	0.44
2	10	Z	-1.75
2	10	Y	-0.60

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
 Load: Design Truck + Lane Load
 Number of loaded lanes = 2
 Contributing longitudinal length = 142.09 ft

Loadcase ID: BR33 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-461.07 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.40
1	1	Z	-1.59
1	1	Y	0.60
1	2	X	0.40
1	2	Z	-1.59
1	3	X	0.40
1	3	Z	-1.59
1	4	X	0.40
1	4	Z	-1.59
1	5	X	0.40



Sheet #	240
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp	Date		

Line #	Bearing #	Dir	Load kips
1	5	Z	-1.59
1	6	X	0.40
1	6	Z	-1.59
1	7	X	0.40
1	7	Z	-1.59
1	8	X	0.40
1	8	Z	-1.59
1	9	X	0.40
1	9	Z	-1.59
1	10	X	0.40
1	10	Z	-1.59
1	11	X	0.40
1	11	Z	-1.59
1	11	Y	-0.60
2	1	X	0.44
2	1	Z	-1.75
2	1	Y	0.60
2	2	X	0.44
2	2	Z	-1.75
2	3	X	0.44
2	3	Z	-1.75
2	4	X	0.44
2	4	Z	-1.75
2	5	X	0.44
2	5	Z	-1.75
2	6	X	0.44
2	6	Z	-1.75
2	7	X	0.44
2	7	Z	-1.75
2	8	X	0.44
2	8	Z	-1.75
2	9	X	0.44
2	9	Z	-1.75
2	10	X	0.44
2	10	Z	-1.75
2	10	Y	-0.60

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
 Load: Design Truck + Lane Load
 Number of loaded lanes = 2



Sheet #	241
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp			Date

Contributing longitudinal length = 142.09 ft

Loadcase ID: BR34 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-587.86 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.51
1	1	Z	-2.02
1	1	Y	0.77
1	2	X	0.51
1	2	Z	-2.02
1	3	X	0.51
1	3	Z	-2.02
1	4	X	0.51
1	4	Z	-2.02
1	5	X	0.51
1	5	Z	-2.02
1	6	X	0.51
1	6	Z	-2.02
1	7	X	0.51
1	7	Z	-2.02
1	8	X	0.51
1	8	Z	-2.02
1	9	X	0.51
1	9	Z	-2.02
1	10	X	0.51
1	10	Z	-2.02
1	11	X	0.51
1	11	Z	-2.02
1	11	Y	-0.77
2	1	X	0.56
2	1	Z	-2.23
2	1	Y	0.77
2	2	X	0.56



Sheet #	242
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp			Date

Line #	Bearing #	Dir	Load kips
2	2	Z	-2.23
2	3	X	0.56
2	3	Z	-2.23
2	4	X	0.56
2	4	Z	-2.23
2	5	X	0.56
2	5	Z	-2.23
2	6	X	0.56
2	6	Z	-2.23
2	7	X	0.56
2	7	Z	-2.23
2	8	X	0.56
2	8	Z	-2.23
2	9	X	0.56
2	9	Z	-2.23
2	10	X	0.56
2	10	Z	-2.23
2	10	Y	-0.77

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
 Load: Design Truck + Lane Load
 Number of loaded lanes = 3
 Contributing longitudinal length = 142.09 ft

Loadcase ID: BR35 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-899.08 k-ft	0.50		



Sheet #	243
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier12EB_Ped_A2.rcp	Checked	Date	

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.78
1	1	Z	-3.09
1	1	Y	1.17
1	2	X	0.78
1	2	Z	-3.09
1	3	X	0.78
1	3	Z	-3.09
1	4	X	0.78
1	4	Z	-3.09
1	5	X	0.78
1	5	Z	-3.09
1	6	X	0.78
1	6	Z	-3.09
1	7	X	0.78
1	7	Z	-3.09
1	8	X	0.78
1	8	Z	-3.09
1	9	X	0.78
1	9	Z	-3.09
1	10	X	0.78
1	10	Z	-3.09
1	11	X	0.78
1	11	Z	-3.09
1	11	Y	-1.17
2	1	X	0.86
2	1	Z	-3.40
2	1	Y	1.17
2	2	X	0.86
2	2	Z	-3.40
2	3	X	0.86
2	3	Z	-3.40
2	4	X	0.86
2	4	Z	-3.40
2	5	X	0.86
2	5	Z	-3.40
2	6	X	0.86
2	6	Z	-3.40
2	7	X	0.86
2	7	Z	-3.40
2	8	X	0.86
2	8	Z	-3.40
2	9	X	0.86
2	9	Z	-3.40
2	10	X	0.86
2	10	Z	-3.40
2	10	Y	-1.17



Sheet #	244
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier12EB_Ped_A2.rcp	Checked	Date	

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
 Load: Design Truck + Lane Load
 Number of loaded lanes = 6
 Contributing longitudinal length = 142.09 ft

Loadcase ID: BR36 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-587.86 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.51
1	1	Z	-2.02
1	1	Y	0.77
1	2	X	0.51
1	2	Z	-2.02
1	3	X	0.51
1	3	Z	-2.02
1	4	X	0.51
1	4	Z	-2.02
1	5	X	0.51
1	5	Z	-2.02
1	6	X	0.51
1	6	Z	-2.02
1	7	X	0.51
1	7	Z	-2.02
1	8	X	0.51
1	8	Z	-2.02
1	9	X	0.51



Sheet # 245
Job #

Program: LEAP® RC-PIER® V8i (SELECTseries 5) SE Client Licenses Designed KSM
Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 Date Sep/10/2013
www.bentley.com Phone: 1-800-778-4277 Checked
File Name: Pier12EB_Ped_A2.rcp Date

Line #	Bearing #	Dir	Load kips
1	9	Z	-2.02
1	10	X	0.51
1	10	Z	-2.02
1	11	X	0.51
1	11	Z	-2.02
1	11	Y	-0.77
2	1	X	0.56
2	1	Z	-2.23
2	1	Y	0.77
2	2	X	0.56
2	2	Z	-2.23
2	3	X	0.56
2	3	Z	-2.23
2	4	X	0.56
2	4	Z	-2.23
2	5	X	0.56
2	5	Z	-2.23
2	6	X	0.56
2	6	Z	-2.23
2	7	X	0.56
2	7	Z	-2.23
2	8	X	0.56
2	8	Z	-2.23
2	9	X	0.56
2	9	Z	-2.23
2	10	X	0.56
2	10	Z	-2.23
2	10	Y	-0.77

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
Load: Design Truck + Lane Load
Number of loaded lanes = 3
Contributing longitudinal length = 142.09 ft

Loadcase ID: BR37 Name:
Multiplier = 1.000



Sheet # 246
Job #

Program: LEAP® RC-PIER® V8i (SELECTseries 5) SE Client Licenses Designed KSM
Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 Date Sep/10/2013
www.bentley.com Phone: 1-800-778-4277 Checked
File Name: Pier12EB_Ped_A2.rcp Date

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-587.86 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.51
1	1	Z	-2.02
1	1	Y	0.77
1	2	X	0.51
1	2	Z	-2.02
1	3	X	0.51
1	3	Z	-2.02
1	4	X	0.51
1	4	Z	-2.02
1	5	X	0.51
1	5	Z	-2.02
1	6	X	0.51
1	6	Z	-2.02
1	7	X	0.51
1	7	Z	-2.02
1	8	X	0.51
1	8	Z	-2.02
1	9	X	0.51
1	9	Z	-2.02
1	10	X	0.51
1	10	Z	-2.02
1	11	X	0.51
1	11	Z	-2.02
1	11	Y	-0.77
2	1	X	0.56
2	1	Z	-2.23
2	1	Y	0.77
2	2	X	0.56
2	2	Z	-2.23
2	3	X	0.56
2	3	Z	-2.23
2	4	X	0.56
2	4	Z	-2.23
2	5	X	0.56
2	5	Z	-2.23
2	6	X	0.56
2	6	Z	-2.23



Sheet #	247
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp	Date		

Line #	Bearing #	Dir	Load kips
2	7	X	0.56
2	7	Z	-2.23
2	8	X	0.56
2	8	Z	-2.23
2	9	X	0.56
2	9	Z	-2.23
2	10	X	0.56
2	10	Z	-2.23
2	10	Y	-0.77

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
 Load: Design Truck + Lane Load
 Number of loaded lanes = 3
 Contributing longitudinal length = 142.09 ft

Loadcase ID: BR38 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-899.08 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.78
1	1	Z	-3.09
1	1	Y	1.17
1	2	X	0.78



Sheet #	248
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp	Date		

Line #	Bearing #	Dir	Load kips
1	2	Z	-3.09
1	3	X	0.78
1	3	Z	-3.09
1	4	X	0.78
1	4	Z	-3.09
1	5	X	0.78
1	5	Z	-3.09
1	6	X	0.78
1	6	Z	-3.09
1	7	X	0.78
1	7	Z	-3.09
1	8	X	0.78
1	8	Z	-3.09
1	9	X	0.78
1	9	Z	-3.09
1	10	X	0.78
1	10	Z	-3.09
1	11	X	0.78
1	11	Z	-3.09
1	11	Y	-1.17
2	1	X	0.86
2	1	Z	-3.40
2	1	Y	1.17
2	2	X	0.86
2	2	Z	-3.40
2	3	X	0.86
2	3	Z	-3.40
2	4	X	0.86
2	4	Z	-3.40
2	5	X	0.86
2	5	Z	-3.40
2	6	X	0.86
2	6	Z	-3.40
2	7	X	0.86
2	7	Z	-3.40
2	8	X	0.86
2	8	Z	-3.40
2	9	X	0.86
2	9	Z	-3.40
2	10	X	0.86
2	10	Z	-3.40
2	10	Y	-1.17

Auto generation details:



Sheet # 249
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp		Date	

Selected Live Load for BR generation

Load: Design Truck
Load: Design Truck + Lane Load
Number of loaded lanes = 6
Contributing longitudinal length = 142.09 ft

Loadcase ID: BR39 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-899.08 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.78
1	1	Z	-3.09
1	1	Y	1.17
1	2	X	0.78
1	2	Z	-3.09
1	3	X	0.78
1	3	Z	-3.09
1	4	X	0.78
1	4	Z	-3.09
1	5	X	0.78
1	5	Z	-3.09
1	6	X	0.78
1	6	Z	-3.09
1	7	X	0.78
1	7	Z	-3.09
1	8	X	0.78
1	8	Z	-3.09
1	9	X	0.78
1	9	Z	-3.09
1	10	X	0.78
1	10	Z	-3.09
1	11	X	0.78
1	11	Z	-3.09
1	11	Y	-1.17



Sheet # 250
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp		Date	

Line #	Bearing #	Dir	Load kips
2	1	X	0.86
2	1	Z	-3.40
2	1	Y	1.17
2	2	X	0.86
2	2	Z	-3.40
2	3	X	0.86
2	3	Z	-3.40
2	4	X	0.86
2	4	Z	-3.40
2	5	X	0.86
2	5	Z	-3.40
2	6	X	0.86
2	6	Z	-3.40
2	7	X	0.86
2	7	Z	-3.40
2	8	X	0.86
2	8	Z	-3.40
2	9	X	0.86
2	9	Z	-3.40
2	10	X	0.86
2	10	Z	-3.40
2	10	Y	-1.17

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
Load: Design Truck + Lane Load
Number of loaded lanes = 6
Contributing longitudinal length = 142.09 ft

Loadcase ID: BR40 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-276.64 k-ft	0.50		



Sheet #	251
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp			Date

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.24
1	1	Z	-0.95
1	1	Y	0.36
1	2	X	0.24
1	2	Z	-0.95
1	3	X	0.24
1	3	Z	-0.95
1	4	X	0.24
1	4	Z	-0.95
1	5	X	0.24
1	5	Z	-0.95
1	6	X	0.24
1	6	Z	-0.95
1	7	X	0.24
1	7	Z	-0.95
1	8	X	0.24
1	8	Z	-0.95
1	9	X	0.24
1	9	Z	-0.95
1	10	X	0.24
1	10	Z	-0.95
1	11	X	0.24
1	11	Z	-0.95
1	11	Y	-0.36
2	1	X	0.26
2	1	Z	-1.05
2	1	Y	0.36
2	2	X	0.26
2	2	Z	-1.05
2	3	X	0.26
2	3	Z	-1.05
2	4	X	0.26
2	4	Z	-1.05
2	5	X	0.26
2	5	Z	-1.05
2	6	X	0.26
2	6	Z	-1.05
2	7	X	0.26
2	7	Z	-1.05
2	8	X	0.26
2	8	Z	-1.05
2	9	X	0.26
2	9	Z	-1.05

Units: US (English)

Design Code: AASHTO LRFD



Sheet #	252
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp			Date

Line #	Bearing #	Dir	Load kips
2	10	X	0.26
2	10	Z	-1.05
2	10	Y	-0.36

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
 Load: Design Truck + Lane Load
 Number of loaded lanes = 1
 Contributing longitudinal length = 142.09 ft

Loadcase ID: BR41 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-587.86 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.51
1	1	Z	-2.02
1	1	Y	0.77
1	2	X	0.51
1	2	Z	-2.02
1	3	X	0.51
1	3	Z	-2.02
1	4	X	0.51
1	4	Z	-2.02
1	5	X	0.51

Units: US (English)

Design Code: AASHTO LRFD



Sheet #	253
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier12EB_Ped_A2.rcp	Checked	Date	

Line #	Bearing #	Dir	Load kips
1	5	Z	-2.02
1	6	X	0.51
1	6	Z	-2.02
1	7	X	0.51
1	7	Z	-2.02
1	8	X	0.51
1	8	Z	-2.02
1	9	X	0.51
1	9	Z	-2.02
1	10	X	0.51
1	10	Z	-2.02
1	11	X	0.51
1	11	Z	-2.02
1	11	Y	-0.77
2	1	X	0.56
2	1	Z	-2.23
2	1	Y	0.77
2	2	X	0.56
2	2	Z	-2.23
2	3	X	0.56
2	3	Z	-2.23
2	4	X	0.56
2	4	Z	-2.23
2	5	X	0.56
2	5	Z	-2.23
2	6	X	0.56
2	6	Z	-2.23
2	7	X	0.56
2	7	Z	-2.23
2	8	X	0.56
2	8	Z	-2.23
2	9	X	0.56
2	9	Z	-2.23
2	10	X	0.56
2	10	Z	-2.23
2	10	Y	-0.77

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
 Load: Design Truck + Lane Load
 Number of loaded lanes = 3



Sheet #	254
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier12EB_Ped_A2.rcp	Checked	Date	

Contributing longitudinal length = 142.09 ft

Loadcase ID: BR42 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-587.86 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.51
1	1	Z	-2.02
1	1	Y	0.77
1	2	X	0.51
1	2	Z	-2.02
1	3	X	0.51
1	3	Z	-2.02
1	4	X	0.51
1	4	Z	-2.02
1	5	X	0.51
1	5	Z	-2.02
1	6	X	0.51
1	6	Z	-2.02
1	7	X	0.51
1	7	Z	-2.02
1	8	X	0.51
1	8	Z	-2.02
1	9	X	0.51
1	9	Z	-2.02
1	10	X	0.51
1	10	Z	-2.02
1	11	X	0.51
1	11	Z	-2.02
1	11	Y	-0.77
2	1	X	0.56
2	1	Z	-2.23
2	1	Y	0.77
2	2	X	0.56



Sheet #	255
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp	Date		

Line #	Bearing #	Dir	Load kips
2	2	Z	-2.23
2	3	X	0.56
2	3	Z	-2.23
2	4	X	0.56
2	4	Z	-2.23
2	5	X	0.56
2	5	Z	-2.23
2	6	X	0.56
2	6	Z	-2.23
2	7	X	0.56
2	7	Z	-2.23
2	8	X	0.56
2	8	Z	-2.23
2	9	X	0.56
2	9	Z	-2.23
2	10	X	0.56
2	10	Z	-2.23
2	10	Y	-0.77

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
 Load: Design Truck + Lane Load
 Number of loaded lanes = 3
 Contributing longitudinal length = 142.09 ft

Loadcase ID: BR43 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-899.08 k-ft	0.50		



Sheet #	256
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp	Date		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.78
1	1	Z	-3.09
1	1	Y	1.17
1	2	X	0.78
1	2	Z	-3.09
1	3	X	0.78
1	3	Z	-3.09
1	4	X	0.78
1	4	Z	-3.09
1	5	X	0.78
1	5	Z	-3.09
1	6	X	0.78
1	6	Z	-3.09
1	7	X	0.78
1	7	Z	-3.09
1	8	X	0.78
1	8	Z	-3.09
1	9	X	0.78
1	9	Z	-3.09
1	10	X	0.78
1	10	Z	-3.09
1	11	X	0.78
1	11	Z	-3.09
1	11	Y	-1.17
2	1	X	0.86
2	1	Z	-3.40
2	1	Y	1.17
2	2	X	0.86
2	2	Z	-3.40
2	3	X	0.86
2	3	Z	-3.40
2	4	X	0.86
2	4	Z	-3.40
2	5	X	0.86
2	5	Z	-3.40
2	6	X	0.86
2	6	Z	-3.40
2	7	X	0.86
2	7	Z	-3.40
2	8	X	0.86
2	8	Z	-3.40
2	9	X	0.86
2	9	Z	-3.40
2	10	X	0.86
2	10	Z	-3.40
2	10	Y	-1.17



Sheet # 257

Job #

Program: LEAP® RC-PIER® V8i (SELECTseries 5)

SE Client Licenses

Designed KSM

Version: 12.01.00.57

Copyright © Bentley Systems, Inc. 2012

Date Sep/10/2013

www.bentley.com Phone: 1-800-778-4277

Checked

File Name: Pier12EB_Ped_A2.rcp

Date

Auto generation details:**Selected Live Load for BR generation**

Load: Design Truck
 Load: Design Truck + Lane Load
 Number of loaded lanes = 6
 Contributing longitudinal length = 142.09 ft

Loadcase ID: BR44 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-587.86 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.51
1	1	Z	-2.02
1	1	Y	0.77
1	2	X	0.51
1	2	Z	-2.02
1	3	X	0.51
1	3	Z	-2.02
1	4	X	0.51
1	4	Z	-2.02
1	5	X	0.51
1	5	Z	-2.02
1	6	X	0.51
1	6	Z	-2.02
1	7	X	0.51
1	7	Z	-2.02
1	8	X	0.51
1	8	Z	-2.02
1	9	X	0.51

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 258

Job #

Program: LEAP® RC-PIER® V8i (SELECTseries 5)

SE Client Licenses

Designed KSM

Version: 12.01.00.57

Copyright © Bentley Systems, Inc. 2012

Date Sep/10/2013

www.bentley.com Phone: 1-800-778-4277

Checked

File Name: Pier12EB_Ped_A2.rcp

Date

Line #	Bearing #	Dir	Load kips
1	9	Z	-2.02
1	10	X	0.51
1	10	Z	-2.02
1	11	X	0.51
1	11	Z	-2.02
1	11	Y	-0.77
2	1	X	0.56
2	1	Z	-2.23
2	1	Y	0.77
2	2	X	0.56
2	2	Z	-2.23
2	3	X	0.56
2	3	Z	-2.23
2	4	X	0.56
2	4	Z	-2.23
2	5	X	0.56
2	5	Z	-2.23
2	6	X	0.56
2	6	Z	-2.23
2	7	X	0.56
2	7	Z	-2.23
2	8	X	0.56
2	8	Z	-2.23
2	9	X	0.56
2	9	Z	-2.23
2	10	X	0.56
2	10	Z	-2.23
2	10	Y	-0.77

Auto generation details:**Selected Live Load for BR generation**

Load: Design Truck
 Load: Design Truck + Lane Load
 Number of loaded lanes = 3
 Contributing longitudinal length = 142.09 ft

Loadcase ID: BR45 Name:

Multiplier = 1.000

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	259
		Job #	
Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277
File Name:	Pier12EB_Ped_A2.rcp	Checked	Date

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-587.86 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.51
1	1	Z	-2.02
1	1	Y	0.77
1	2	X	0.51
1	2	Z	-2.02
1	3	X	0.51
1	3	Z	-2.02
1	4	X	0.51
1	4	Z	-2.02
1	5	X	0.51
1	5	Z	-2.02
1	6	X	0.51
1	6	Z	-2.02
1	7	X	0.51
1	7	Z	-2.02
1	8	X	0.51
1	8	Z	-2.02
1	9	X	0.51
1	9	Z	-2.02
1	10	X	0.51
1	10	Z	-2.02
1	11	X	0.51
1	11	Z	-2.02
1	11	Y	-0.77
2	1	X	0.56
2	1	Z	-2.23
2	1	Y	0.77
2	2	X	0.56
2	2	Z	-2.23
2	3	X	0.56
2	3	Z	-2.23
2	4	X	0.56
2	4	Z	-2.23
2	5	X	0.56
2	5	Z	-2.23
2	6	X	0.56
2	6	Z	-2.23

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	260
		Job #	
Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277
File Name:	Pier12EB_Ped_A2.rcp	Checked	Date

Line #	Bearing #	Dir	Load kips
2	7	X	0.56
2	7	Z	-2.23
2	8	X	0.56
2	8	Z	-2.23
2	9	X	0.56
2	9	Z	-2.23
2	10	X	0.56
2	10	Z	-2.23
2	10	Y	-0.77

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
 Load: Design Truck + Lane Load
 Number of loaded lanes = 3
 Contributing longitudinal length = 142.09 ft

Loadcase ID: BR46 Name:
 Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-587.86 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.51
1	1	Z	-2.02
1	1	Y	0.77
1	2	X	0.51

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 261
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp		Date	

Line #	Bearing #	Dir	Load kips
1	2	Z	-2.02
1	3	X	0.51
1	3	Z	-2.02
1	4	X	0.51
1	4	Z	-2.02
1	5	X	0.51
1	5	Z	-2.02
1	6	X	0.51
1	6	Z	-2.02
1	7	X	0.51
1	7	Z	-2.02
1	8	X	0.51
1	8	Z	-2.02
1	9	X	0.51
1	9	Z	-2.02
1	10	X	0.51
1	10	Z	-2.02
1	11	X	0.51
1	11	Z	-2.02
1	11	Y	-0.77
2	1	X	0.56
2	1	Z	-2.23
2	1	Y	0.77
2	2	X	0.56
2	2	Z	-2.23
2	3	X	0.56
2	3	Z	-2.23
2	4	X	0.56
2	4	Z	-2.23
2	5	X	0.56
2	5	Z	-2.23
2	6	X	0.56
2	6	Z	-2.23
2	7	X	0.56
2	7	Z	-2.23
2	8	X	0.56
2	8	Z	-2.23
2	9	X	0.56
2	9	Z	-2.23
2	10	X	0.56
2	10	Z	-2.23
2	10	Y	-0.77

Auto generation details:



Sheet # 262
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp		Date	

Selected Live Load for BR generation

Load: Design Truck
Load: Design Truck + Lane Load
Number of loaded lanes = 3
Contributing longitudinal length = 142.09 ft

Loadcase ID: BR47 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-587.86 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.51
1	1	Z	-2.02
1	1	Y	0.77
1	2	X	0.51
1	2	Z	-2.02
1	3	X	0.51
1	3	Z	-2.02
1	4	X	0.51
1	4	Z	-2.02
1	5	X	0.51
1	5	Z	-2.02
1	6	X	0.51
1	6	Z	-2.02
1	7	X	0.51
1	7	Z	-2.02
1	8	X	0.51
1	8	Z	-2.02
1	9	X	0.51
1	9	Z	-2.02
1	10	X	0.51
1	10	Z	-2.02
1	11	X	0.51
1	11	Z	-2.02
1	11	Y	-0.77



Sheet #	263
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp		Date	

Line #	Bearing #	Dir	Load kips
2	1	X	0.56
2	1	Z	-2.23
2	1	Y	0.77
2	2	X	0.56
2	2	Z	-2.23
2	3	X	0.56
2	3	Z	-2.23
2	4	X	0.56
2	4	Z	-2.23
2	5	X	0.56
2	5	Z	-2.23
2	6	X	0.56
2	6	Z	-2.23
2	7	X	0.56
2	7	Z	-2.23
2	8	X	0.56
2	8	Z	-2.23
2	9	X	0.56
2	9	Z	-2.23
2	10	X	0.56
2	10	Z	-2.23
2	10	Y	-0.77

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
 Load: Design Truck + Lane Load
 Number of loaded lanes = 3
 Contributing longitudinal length = 142.09 ft

Loadcase ID: BR48 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-461.07 k-ft	0.50		



Sheet #	264
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp		Date	

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.40
1	1	Z	-1.59
1	1	Y	0.60
1	2	X	0.40
1	2	Z	-1.59
1	3	X	0.40
1	3	Z	-1.59
1	4	X	0.40
1	4	Z	-1.59
1	5	X	0.40
1	5	Z	-1.59
1	6	X	0.40
1	6	Z	-1.59
1	7	X	0.40
1	7	Z	-1.59
1	8	X	0.40
1	8	Z	-1.59
1	9	X	0.40
1	9	Z	-1.59
1	10	X	0.40
1	10	Z	-1.59
1	11	X	0.40
1	11	Z	-1.59
1	11	Y	-0.60
2	1	X	0.44
2	1	Z	-1.75
2	1	Y	0.60
2	2	X	0.44
2	2	Z	-1.75
2	3	X	0.44
2	3	Z	-1.75
2	4	X	0.44
2	4	Z	-1.75
2	5	X	0.44
2	5	Z	-1.75
2	6	X	0.44
2	6	Z	-1.75
2	7	X	0.44
2	7	Z	-1.75
2	8	X	0.44
2	8	Z	-1.75
2	9	X	0.44
2	9	Z	-1.75



Sheet #	265
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp	Date		

Line #	Bearing #	Dir	Load kips
2	10	X	0.44
2	10	Z	-1.75
2	10	Y	-0.60

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
 Load: Design Truck + Lane Load
 Number of loaded lanes = 2
 Contributing longitudinal length = 142.09 ft

Loadcase ID: BR49 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-587.86 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.51
1	1	Z	-2.02
1	1	Y	0.77
1	2	X	0.51
1	2	Z	-2.02
1	3	X	0.51
1	3	Z	-2.02
1	4	X	0.51
1	4	Z	-2.02
1	5	X	0.51



Sheet #	266
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp	Date		

Line #	Bearing #	Dir	Load kips
1	5	Z	-2.02
1	6	X	0.51
1	6	Z	-2.02
1	7	X	0.51
1	7	Z	-2.02
1	8	X	0.51
1	8	Z	-2.02
1	9	X	0.51
1	9	Z	-2.02
1	10	X	0.51
1	10	Z	-2.02
1	11	X	0.51
1	11	Z	-2.02
1	11	Y	-0.77
2	1	X	0.56
2	1	Z	-2.23
2	1	Y	0.77
2	2	X	0.56
2	2	Z	-2.23
2	3	X	0.56
2	3	Z	-2.23
2	4	X	0.56
2	4	Z	-2.23
2	5	X	0.56
2	5	Z	-2.23
2	6	X	0.56
2	6	Z	-2.23
2	7	X	0.56
2	7	Z	-2.23
2	8	X	0.56
2	8	Z	-2.23
2	9	X	0.56
2	9	Z	-2.23
2	10	X	0.56
2	10	Z	-2.23
2	10	Y	-0.77

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
 Load: Design Truck + Lane Load
 Number of loaded lanes = 3



Sheet # 267

Job #

Program: LEAP® RC-PIER® V8i (SELECTseries 5)

SE Client Licenses

Designed KSM

Version: 12.01.00.57

Copyright © Bentley Systems, Inc. 2012

Date Sep/10/2013

www.bentley.com Phone: 1-800-778-4277

Checked

File Name: Pier12EB_Ped_A2.rcp

Date

Contributing longitudinal length = 142.09 ft

Loadcase ID: BR50 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-461.07 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.40
1	1	Z	-1.59
1	1	Y	0.60
1	2	X	0.40
1	2	Z	-1.59
1	3	X	0.40
1	3	Z	-1.59
1	4	X	0.40
1	4	Z	-1.59
1	5	X	0.40
1	5	Z	-1.59
1	6	X	0.40
1	6	Z	-1.59
1	7	X	0.40
1	7	Z	-1.59
1	8	X	0.40
1	8	Z	-1.59
1	9	X	0.40
1	9	Z	-1.59
1	10	X	0.40
1	10	Z	-1.59
1	11	X	0.40
1	11	Z	-1.59
1	11	Y	-0.60
2	1	X	0.44
2	1	Z	-1.75
2	1	Y	0.60
2	2	X	0.44

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 268

Job #

Program: LEAP® RC-PIER® V8i (SELECTseries 5)

SE Client Licenses

Designed KSM

Version: 12.01.00.57

Copyright © Bentley Systems, Inc. 2012

Date Sep/10/2013

www.bentley.com Phone: 1-800-778-4277

Checked

File Name: Pier12EB_Ped_A2.rcp

Date

Line #	Bearing #	Dir	Load kips
2	2	Z	-1.75
2	3	X	0.44
2	3	Z	-1.75
2	4	X	0.44
2	4	Z	-1.75
2	5	X	0.44
2	5	Z	-1.75
2	6	X	0.44
2	6	Z	-1.75
2	7	X	0.44
2	7	Z	-1.75
2	8	X	0.44
2	8	Z	-1.75
2	9	X	0.44
2	9	Z	-1.75
2	10	X	0.44
2	10	Z	-1.75
2	10	Y	-0.60

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck

Load: Design Truck + Lane Load

Number of loaded lanes = 2

Contributing longitudinal length = 142.09 ft

Loadcase ID: BR51 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-587.86 k-ft	0.50		

Units: US (English)

Design Code: AASHTO LRFD



Sheet #	269
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier12EB_Ped_A2.rcp	Checked		
		Date		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.51
1	1	Z	-2.02
1	1	Y	0.77
1	2	X	0.51
1	2	Z	-2.02
1	3	X	0.51
1	3	Z	-2.02
1	4	X	0.51
1	4	Z	-2.02
1	5	X	0.51
1	5	Z	-2.02
1	6	X	0.51
1	6	Z	-2.02
1	7	X	0.51
1	7	Z	-2.02
1	8	X	0.51
1	8	Z	-2.02
1	9	X	0.51
1	9	Z	-2.02
1	10	X	0.51
1	10	Z	-2.02
1	11	X	0.51
1	11	Z	-2.02
1	11	Y	-0.77
2	1	X	0.56
2	1	Z	-2.23
2	1	Y	0.77
2	2	X	0.56
2	2	Z	-2.23
2	3	X	0.56
2	3	Z	-2.23
2	4	X	0.56
2	4	Z	-2.23
2	5	X	0.56
2	5	Z	-2.23
2	6	X	0.56
2	6	Z	-2.23
2	7	X	0.56
2	7	Z	-2.23
2	8	X	0.56
2	8	Z	-2.23
2	9	X	0.56
2	9	Z	-2.23
2	10	X	0.56
2	10	Z	-2.23
2	10	Y	-0.77

Units: US (English)

Design Code: AASHTO LRFD



Sheet #	270
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier12EB_Ped_A2.rcp	Checked		
		Date		

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
 Load: Design Truck + Lane Load
 Number of loaded lanes = 3
 Contributing longitudinal length = 142.09 ft

Loadcase ID: BR52 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-461.07 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.40
1	1	Z	-1.59
1	1	Y	0.60
1	2	X	0.40
1	2	Z	-1.59
1	3	X	0.40
1	3	Z	-1.59
1	4	X	0.40
1	4	Z	-1.59
1	5	X	0.40
1	5	Z	-1.59
1	6	X	0.40
1	6	Z	-1.59
1	7	X	0.40
1	7	Z	-1.59
1	8	X	0.40
1	8	Z	-1.59
1	9	X	0.40

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 271
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Checked	
File Name:		Pier12EB_Ped_A2.rcp	Date	

Line #	Bearing #	Dir	Load kips
1	9	Z	-1.59
1	10	X	0.40
1	10	Z	-1.59
1	11	X	0.40
1	11	Z	-1.59
1	11	Y	-0.60
2	1	X	0.44
2	1	Z	-1.75
2	1	Y	0.60
2	2	X	0.44
2	2	Z	-1.75
2	3	X	0.44
2	3	Z	-1.75
2	4	X	0.44
2	4	Z	-1.75
2	5	X	0.44
2	5	Z	-1.75
2	6	X	0.44
2	6	Z	-1.75
2	7	X	0.44
2	7	Z	-1.75
2	8	X	0.44
2	8	Z	-1.75
2	9	X	0.44
2	9	Z	-1.75
2	10	X	0.44
2	10	Z	-1.75
2	10	Y	-0.60

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
Load: Design Truck + Lane Load
Number of loaded lanes = 2
Contributing longitudinal length = 142.09 ft

Loadcase ID: BR53 Name:
Multiplier = 1.000



Sheet # 272
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Checked	
File Name:		Pier12EB_Ped_A2.rcp	Date	

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-461.07 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.40
1	1	Z	-1.59
1	1	Y	0.60
1	2	X	0.40
1	2	Z	-1.59
1	3	X	0.40
1	3	Z	-1.59
1	4	X	0.40
1	4	Z	-1.59
1	5	X	0.40
1	5	Z	-1.59
1	6	X	0.40
1	6	Z	-1.59
1	7	X	0.40
1	7	Z	-1.59
1	8	X	0.40
1	8	Z	-1.59
1	9	X	0.40
1	9	Z	-1.59
1	10	X	0.40
1	10	Z	-1.59
1	11	X	0.40
1	11	Z	-1.59
1	11	Y	-0.60
2	1	X	0.44
2	1	Z	-1.75
2	1	Y	0.60
2	2	X	0.44
2	2	Z	-1.75
2	3	X	0.44
2	3	Z	-1.75
2	4	X	0.44
2	4	Z	-1.75
2	5	X	0.44
2	5	Z	-1.75
2	6	X	0.44
2	6	Z	-1.75



Sheet #	273
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp	Date		

Line #	Bearing #	Dir	Load kips
2	7	X	0.44
2	7	Z	-1.75
2	8	X	0.44
2	8	Z	-1.75
2	9	X	0.44
2	9	Z	-1.75
2	10	X	0.44
2	10	Z	-1.75
2	10	Y	-0.60

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
 Load: Design Truck + Lane Load
 Number of loaded lanes = 2
 Contributing longitudinal length = 142.09 ft

Loadcase ID: BR54 Name:
 Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-587.86 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.51
1	1	Z	-2.02
1	1	Y	0.77
1	2	X	0.51



Sheet #	274
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp	Date		

Line #	Bearing #	Dir	Load kips
1	2	Z	-2.02
1	3	X	0.51
1	3	Z	-2.02
1	4	X	0.51
1	4	Z	-2.02
1	5	X	0.51
1	5	Z	-2.02
1	6	X	0.51
1	6	Z	-2.02
1	7	X	0.51
1	7	Z	-2.02
1	8	X	0.51
1	8	Z	-2.02
1	9	X	0.51
1	9	Z	-2.02
1	10	X	0.51
1	10	Z	-2.02
1	11	X	0.51
1	11	Z	-2.02
1	11	Y	-0.77
2	1	X	0.56
2	1	Z	-2.23
2	1	Y	0.77
2	2	X	0.56
2	2	Z	-2.23
2	3	X	0.56
2	3	Z	-2.23
2	4	X	0.56
2	4	Z	-2.23
2	5	X	0.56
2	5	Z	-2.23
2	6	X	0.56
2	6	Z	-2.23
2	7	X	0.56
2	7	Z	-2.23
2	8	X	0.56
2	8	Z	-2.23
2	9	X	0.56
2	9	Z	-2.23
2	10	X	0.56
2	10	Z	-2.23
2	10	Y	-0.77

Auto generation details:



Sheet # 275
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp		Date	

Selected Live Load for BR generation

Load: Design Truck
Load: Design Truck + Lane Load
Number of loaded lanes = 3
Contributing longitudinal length = 142.09 ft

Loadcase ID: BR55 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-587.86 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.51
1	1	Z	-2.02
1	1	Y	0.77
1	2	X	0.51
1	2	Z	-2.02
1	3	X	0.51
1	3	Z	-2.02
1	4	X	0.51
1	4	Z	-2.02
1	5	X	0.51
1	5	Z	-2.02
1	6	X	0.51
1	6	Z	-2.02
1	7	X	0.51
1	7	Z	-2.02
1	8	X	0.51
1	8	Z	-2.02
1	9	X	0.51
1	9	Z	-2.02
1	10	X	0.51
1	10	Z	-2.02
1	11	X	0.51
1	11	Z	-2.02
1	11	Y	-0.77



Sheet # 276
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp		Date	

Line #	Bearing #	Dir	Load kips
2	1	X	0.56
2	1	Z	-2.23
2	1	Y	0.77
2	2	X	0.56
2	2	Z	-2.23
2	3	X	0.56
2	3	Z	-2.23
2	4	X	0.56
2	4	Z	-2.23
2	5	X	0.56
2	5	Z	-2.23
2	6	X	0.56
2	6	Z	-2.23
2	7	X	0.56
2	7	Z	-2.23
2	8	X	0.56
2	8	Z	-2.23
2	9	X	0.56
2	9	Z	-2.23
2	10	X	0.56
2	10	Z	-2.23
2	10	Y	-0.77

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
Load: Design Truck + Lane Load
Number of loaded lanes = 3
Contributing longitudinal length = 142.09 ft

Loadcase ID: BR56 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-461.07 k-ft	0.50		



Sheet # 277

Job #

Program: LEAP® RC-PIER® V8i (SELECTseries 5)

SE Client Licenses

Designed KSM

Version: 12.01.00.57

Copyright © Bentley Systems, Inc. 2012

Date Sep/10/2013

www.bentley.com Phone: 1-800-778-4277

Checked

File Name: Pier12EB_Ped_A2.rcp

Date

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.40
1	1	Z	-1.59
1	1	Y	0.60
1	2	X	0.40
1	2	Z	-1.59
1	3	X	0.40
1	3	Z	-1.59
1	4	X	0.40
1	4	Z	-1.59
1	5	X	0.40
1	5	Z	-1.59
1	6	X	0.40
1	6	Z	-1.59
1	7	X	0.40
1	7	Z	-1.59
1	8	X	0.40
1	8	Z	-1.59
1	9	X	0.40
1	9	Z	-1.59
1	10	X	0.40
1	10	Z	-1.59
1	11	X	0.40
1	11	Z	-1.59
1	11	Y	-0.60
2	1	X	0.44
2	1	Z	-1.75
2	1	Y	0.60
2	2	X	0.44
2	2	Z	-1.75
2	3	X	0.44
2	3	Z	-1.75
2	4	X	0.44
2	4	Z	-1.75
2	5	X	0.44
2	5	Z	-1.75
2	6	X	0.44
2	6	Z	-1.75
2	7	X	0.44
2	7	Z	-1.75
2	8	X	0.44
2	8	Z	-1.75
2	9	X	0.44
2	9	Z	-1.75

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 278

Job #

Program: LEAP® RC-PIER® V8i (SELECTseries 5)

SE Client Licenses

Designed KSM

Version: 12.01.00.57

Copyright © Bentley Systems, Inc. 2012

Date Sep/10/2013

www.bentley.com Phone: 1-800-778-4277

Checked

File Name: Pier12EB_Ped_A2.rcp

Date

Line #	Bearing #	Dir	Load kips
2	10	X	0.44
2	10	Z	-1.75
2	10	Y	-0.60

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
 Load: Design Truck + Lane Load
 Number of loaded lanes = 2
 Contributing longitudinal length = 142.09 ft

Loadcase ID: BR57 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-899.08 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.78
1	1	Z	-3.09
1	1	Y	1.17
1	2	X	0.78
1	2	Z	-3.09
1	3	X	0.78
1	3	Z	-3.09
1	4	X	0.78
1	4	Z	-3.09
1	5	X	0.78

Units: US (English)

Design Code: AASHTO LRFD



Sheet #	279
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier12EB_Ped_A2.rcp	Checked		
		Date		

Line #	Bearing #	Dir	Load kips
1	5	Z	-3.09
1	6	X	0.78
1	6	Z	-3.09
1	7	X	0.78
1	7	Z	-3.09
1	8	X	0.78
1	8	Z	-3.09
1	9	X	0.78
1	9	Z	-3.09
1	10	X	0.78
1	10	Z	-3.09
1	11	X	0.78
1	11	Z	-3.09
1	11	Y	-1.17
2	1	X	0.86
2	1	Z	-3.40
2	1	Y	1.17
2	2	X	0.86
2	2	Z	-3.40
2	3	X	0.86
2	3	Z	-3.40
2	4	X	0.86
2	4	Z	-3.40
2	5	X	0.86
2	5	Z	-3.40
2	6	X	0.86
2	6	Z	-3.40
2	7	X	0.86
2	7	Z	-3.40
2	8	X	0.86
2	8	Z	-3.40
2	9	X	0.86
2	9	Z	-3.40
2	10	X	0.86
2	10	Z	-3.40
2	10	Y	-1.17

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
 Load: Design Truck + Lane Load
 Number of loaded lanes = 6



Sheet #	280
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier12EB_Ped_A2.rcp	Checked		
		Date		

Contributing longitudinal length = 142.09 ft

Loadcase ID: BR58 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-587.86 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.51
1	1	Z	-2.02
1	1	Y	0.77
1	2	X	0.51
1	2	Z	-2.02
1	3	X	0.51
1	3	Z	-2.02
1	4	X	0.51
1	4	Z	-2.02
1	5	X	0.51
1	5	Z	-2.02
1	6	X	0.51
1	6	Z	-2.02
1	7	X	0.51
1	7	Z	-2.02
1	8	X	0.51
1	8	Z	-2.02
1	9	X	0.51
1	9	Z	-2.02
1	10	X	0.51
1	10	Z	-2.02
1	11	X	0.51
1	11	Z	-2.02
1	11	Y	-0.77
2	1	X	0.56
2	1	Z	-2.23
2	1	Y	0.77
2	2	X	0.56



Sheet #	281
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp	Date		

Line #	Bearing #	Dir	Load kips
2	2	Z	-2.23
2	3	X	0.56
2	3	Z	-2.23
2	4	X	0.56
2	4	Z	-2.23
2	5	X	0.56
2	5	Z	-2.23
2	6	X	0.56
2	6	Z	-2.23
2	7	X	0.56
2	7	Z	-2.23
2	8	X	0.56
2	8	Z	-2.23
2	9	X	0.56
2	9	Z	-2.23
2	10	X	0.56
2	10	Z	-2.23
2	10	Y	-0.77

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
 Load: Design Truck + Lane Load
 Number of loaded lanes = 3
 Contributing longitudinal length = 142.09 ft

Loadcase ID: BR59 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-899.08 k-ft	0.50		



Sheet #	282
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp	Date		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.78
1	1	Z	-3.09
1	1	Y	1.17
1	2	X	0.78
1	2	Z	-3.09
1	3	X	0.78
1	3	Z	-3.09
1	4	X	0.78
1	4	Z	-3.09
1	5	X	0.78
1	5	Z	-3.09
1	6	X	0.78
1	6	Z	-3.09
1	7	X	0.78
1	7	Z	-3.09
1	8	X	0.78
1	8	Z	-3.09
1	9	X	0.78
1	9	Z	-3.09
1	10	X	0.78
1	10	Z	-3.09
1	11	X	0.78
1	11	Z	-3.09
1	11	Y	-1.17
2	1	X	0.86
2	1	Z	-3.40
2	1	Y	1.17
2	2	X	0.86
2	2	Z	-3.40
2	3	X	0.86
2	3	Z	-3.40
2	4	X	0.86
2	4	Z	-3.40
2	5	X	0.86
2	5	Z	-3.40
2	6	X	0.86
2	6	Z	-3.40
2	7	X	0.86
2	7	Z	-3.40
2	8	X	0.86
2	8	Z	-3.40
2	9	X	0.86
2	9	Z	-3.40
2	10	X	0.86
2	10	Z	-3.40
2	10	Y	-1.17



Sheet # 283

Job #

Program: LEAP® RC-PIER® V8i (SELECTseries 5)

SE Client Licenses

Designed KSM

Version: 12.01.00.57

Copyright © Bentley Systems, Inc. 2012

Date Sep/10/2013

www.bentley.com Phone: 1-800-778-4277

Checked

File Name: Pier12EB_Ped_A2.rcp

Date

Auto generation details:**Selected Live Load for BR generation**

Load: Design Truck
 Load: Design Truck + Lane Load
 Number of loaded lanes = 6
 Contributing longitudinal length = 142.09 ft

Loadcase ID: BR60 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-587.86 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.51
1	1	Z	-2.02
1	1	Y	0.77
1	2	X	0.51
1	2	Z	-2.02
1	3	X	0.51
1	3	Z	-2.02
1	4	X	0.51
1	4	Z	-2.02
1	5	X	0.51
1	5	Z	-2.02
1	6	X	0.51
1	6	Z	-2.02
1	7	X	0.51
1	7	Z	-2.02
1	8	X	0.51
1	8	Z	-2.02
1	9	X	0.51

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 284

Job #

Program: LEAP® RC-PIER® V8i (SELECTseries 5)

SE Client Licenses

Designed KSM

Version: 12.01.00.57

Copyright © Bentley Systems, Inc. 2012

Date Sep/10/2013

www.bentley.com Phone: 1-800-778-4277

Checked

File Name: Pier12EB_Ped_A2.rcp

Date

Line #	Bearing #	Dir	Load kips
1	9	Z	-2.02
1	10	X	0.51
1	10	Z	-2.02
1	11	X	0.51
1	11	Z	-2.02
1	11	Y	-0.77
2	1	X	0.56
2	1	Z	-2.23
2	1	Y	0.77
2	2	X	0.56
2	2	Z	-2.23
2	3	X	0.56
2	3	Z	-2.23
2	4	X	0.56
2	4	Z	-2.23
2	5	X	0.56
2	5	Z	-2.23
2	6	X	0.56
2	6	Z	-2.23
2	7	X	0.56
2	7	Z	-2.23
2	8	X	0.56
2	8	Z	-2.23
2	9	X	0.56
2	9	Z	-2.23
2	10	X	0.56
2	10	Z	-2.23
2	10	Y	-0.77

Auto generation details:**Selected Live Load for BR generation**

Load: Design Truck
 Load: Design Truck + Lane Load
 Number of loaded lanes = 3
 Contributing longitudinal length = 142.09 ft

Loadcase ID: BR61 Name:

Multiplier = 1.000

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 285
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
File Name:		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:			Date	

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-899.08 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.78
1	1	Z	-3.09
1	1	Y	1.17
1	2	X	0.78
1	2	Z	-3.09
1	3	X	0.78
1	3	Z	-3.09
1	4	X	0.78
1	4	Z	-3.09
1	5	X	0.78
1	5	Z	-3.09
1	6	X	0.78
1	6	Z	-3.09
1	7	X	0.78
1	7	Z	-3.09
1	8	X	0.78
1	8	Z	-3.09
1	9	X	0.78
1	9	Z	-3.09
1	10	X	0.78
1	10	Z	-3.09
1	11	X	0.78
1	11	Z	-3.09
1	11	Y	-1.17
2	1	X	0.86
2	1	Z	-3.40
2	1	Y	1.17
2	2	X	0.86
2	2	Z	-3.40
2	3	X	0.86
2	3	Z	-3.40
2	4	X	0.86
2	4	Z	-3.40
2	5	X	0.86
2	5	Z	-3.40
2	6	X	0.86
2	6	Z	-3.40

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 286
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
File Name:		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:			Date	

Line #	Bearing #	Dir	Load kips
2	7	X	0.86
2	7	Z	-3.40
2	8	X	0.86
2	8	Z	-3.40
2	9	X	0.86
2	9	Z	-3.40
2	10	X	0.86
2	10	Z	-3.40
2	10	Y	-1.17

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
Load: Design Truck + Lane Load
Number of loaded lanes = 6
Contributing longitudinal length = 142.09 ft

Loadcase ID: BR62 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-899.08 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.78
1	1	Z	-3.09
1	1	Y	1.17
1	2	X	0.78

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 287
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp		Date	

Line #	Bearing #	Dir	Load kips
1	2	Z	-3.09
1	3	X	0.78
1	3	Z	-3.09
1	4	X	0.78
1	4	Z	-3.09
1	5	X	0.78
1	5	Z	-3.09
1	6	X	0.78
1	6	Z	-3.09
1	7	X	0.78
1	7	Z	-3.09
1	8	X	0.78
1	8	Z	-3.09
1	9	X	0.78
1	9	Z	-3.09
1	10	X	0.78
1	10	Z	-3.09
1	11	X	0.78
1	11	Z	-3.09
1	11	Y	-1.17
2	1	X	0.86
2	1	Z	-3.40
2	1	Y	1.17
2	2	X	0.86
2	2	Z	-3.40
2	3	X	0.86
2	3	Z	-3.40
2	4	X	0.86
2	4	Z	-3.40
2	5	X	0.86
2	5	Z	-3.40
2	6	X	0.86
2	6	Z	-3.40
2	7	X	0.86
2	7	Z	-3.40
2	8	X	0.86
2	8	Z	-3.40
2	9	X	0.86
2	9	Z	-3.40
2	10	X	0.86
2	10	Z	-3.40
2	10	Y	-1.17

Auto generation details:



Sheet # 288
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp		Date	

Selected Live Load for BR generation

Load: Design Truck
Load: Design Truck + Lane Load
Number of loaded lanes = 6
Contributing longitudinal length = 142.09 ft

Loadcase ID: BR63 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-461.07 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.40
1	1	Z	-1.59
1	1	Y	0.60
1	2	X	0.40
1	2	Z	-1.59
1	3	X	0.40
1	3	Z	-1.59
1	4	X	0.40
1	4	Z	-1.59
1	5	X	0.40
1	5	Z	-1.59
1	6	X	0.40
1	6	Z	-1.59
1	7	X	0.40
1	7	Z	-1.59
1	8	X	0.40
1	8	Z	-1.59
1	9	X	0.40
1	9	Z	-1.59
1	10	X	0.40
1	10	Z	-1.59
1	11	X	0.40
1	11	Z	-1.59
1	11	Y	-0.60



Sheet #	289
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp	Date		

Line #	Bearing #	Dir	Load kips
2	1	X	0.44
2	1	Z	-1.75
2	1	Y	0.60
2	2	X	0.44
2	2	Z	-1.75
2	3	X	0.44
2	3	Z	-1.75
2	4	X	0.44
2	4	Z	-1.75
2	5	X	0.44
2	5	Z	-1.75
2	6	X	0.44
2	6	Z	-1.75
2	7	X	0.44
2	7	Z	-1.75
2	8	X	0.44
2	8	Z	-1.75
2	9	X	0.44
2	9	Z	-1.75
2	10	X	0.44
2	10	Z	-1.75
2	10	Y	-0.60

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
 Load: Design Truck + Lane Load
 Number of loaded lanes = 2
 Contributing longitudinal length = 142.09 ft

Loadcase ID: BR64 Name:
 Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-276.64 k-ft	0.50		



Sheet #	290
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp	Date		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.24
1	1	Z	-0.95
1	1	Y	0.36
1	2	X	0.24
1	2	Z	-0.95
1	3	X	0.24
1	3	Z	-0.95
1	4	X	0.24
1	4	Z	-0.95
1	5	X	0.24
1	5	Z	-0.95
1	6	X	0.24
1	6	Z	-0.95
1	7	X	0.24
1	7	Z	-0.95
1	8	X	0.24
1	8	Z	-0.95
1	9	X	0.24
1	9	Z	-0.95
1	10	X	0.24
1	10	Z	-0.95
1	11	X	0.24
1	11	Z	-0.95
1	11	Y	-0.36
2	1	X	0.26
2	1	Z	-1.05
2	1	Y	0.36
2	2	X	0.26
2	2	Z	-1.05
2	3	X	0.26
2	3	Z	-1.05
2	4	X	0.26
2	4	Z	-1.05
2	5	X	0.26
2	5	Z	-1.05
2	6	X	0.26
2	6	Z	-1.05
2	7	X	0.26
2	7	Z	-1.05
2	8	X	0.26
2	8	Z	-1.05
2	9	X	0.26
2	9	Z	-1.05



Sheet #	291
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier12EB_Ped_A2.rcp	Checked		
		Date		

Line #	Bearing #	Dir	Load kips
2	10	X	0.26
2	10	Z	-1.05
2	10	Y	-0.36

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
 Load: Design Truck + Lane Load
 Number of loaded lanes = 1
 Contributing longitudinal length = 142.09 ft

Loadcase ID: BR65 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-899.08 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.78
1	1	Z	-3.09
1	1	Y	1.17
1	2	X	0.78
1	2	Z	-3.09
1	3	X	0.78
1	3	Z	-3.09
1	4	X	0.78
1	4	Z	-3.09
1	5	X	0.78



Sheet #	292
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier12EB_Ped_A2.rcp	Checked		
		Date		

Line #	Bearing #	Dir	Load kips
1	5	Z	-3.09
1	6	X	0.78
1	6	Z	-3.09
1	7	X	0.78
1	7	Z	-3.09
1	8	X	0.78
1	8	Z	-3.09
1	9	X	0.78
1	9	Z	-3.09
1	10	X	0.78
1	10	Z	-3.09
1	11	X	0.78
1	11	Z	-3.09
1	11	Y	-1.17
2	1	X	0.86
2	1	Z	-3.40
2	1	Y	1.17
2	2	X	0.86
2	2	Z	-3.40
2	3	X	0.86
2	3	Z	-3.40
2	4	X	0.86
2	4	Z	-3.40
2	5	X	0.86
2	5	Z	-3.40
2	6	X	0.86
2	6	Z	-3.40
2	7	X	0.86
2	7	Z	-3.40
2	8	X	0.86
2	8	Z	-3.40
2	9	X	0.86
2	9	Z	-3.40
2	10	X	0.86
2	10	Z	-3.40
2	10	Y	-1.17

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
 Load: Design Truck + Lane Load
 Number of loaded lanes = 6



Sheet # 293
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp			Date

Contributing longitudinal length = 142.09 ft

Loadcase ID: BR66 Name:
Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-461.07 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.40
1	1	Z	-1.59
1	1	Y	0.60
1	2	X	0.40
1	2	Z	-1.59
1	3	X	0.40
1	3	Z	-1.59
1	4	X	0.40
1	4	Z	-1.59
1	5	X	0.40
1	5	Z	-1.59
1	6	X	0.40
1	6	Z	-1.59
1	7	X	0.40
1	7	Z	-1.59
1	8	X	0.40
1	8	Z	-1.59
1	9	X	0.40
1	9	Z	-1.59
1	10	X	0.40
1	10	Z	-1.59
1	11	X	0.40
1	11	Z	-1.59
1	11	Y	-0.60
2	1	X	0.44
2	1	Z	-1.75
2	1	Y	0.60
2	2	X	0.44



Sheet # 294
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp			Date

Line #	Bearing #	Dir	Load kips
2	2	Z	-1.75
2	3	X	0.44
2	3	Z	-1.75
2	4	X	0.44
2	4	Z	-1.75
2	5	X	0.44
2	5	Z	-1.75
2	6	X	0.44
2	6	Z	-1.75
2	7	X	0.44
2	7	Z	-1.75
2	8	X	0.44
2	8	Z	-1.75
2	9	X	0.44
2	9	Z	-1.75
2	10	X	0.44
2	10	Z	-1.75
2	10	Y	-0.60

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
Load: Design Truck + Lane Load
Number of loaded lanes = 2
Contributing longitudinal length = 142.09 ft

Loadcase ID: BR67 Name:
Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-899.08 k-ft	0.50		



Sheet #	295
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier12EB_Ped_A2.rcp	Checked	Date	

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.78
1	1	Z	-3.09
1	1	Y	1.17
1	2	X	0.78
1	2	Z	-3.09
1	3	X	0.78
1	3	Z	-3.09
1	4	X	0.78
1	4	Z	-3.09
1	5	X	0.78
1	5	Z	-3.09
1	6	X	0.78
1	6	Z	-3.09
1	7	X	0.78
1	7	Z	-3.09
1	8	X	0.78
1	8	Z	-3.09
1	9	X	0.78
1	9	Z	-3.09
1	10	X	0.78
1	10	Z	-3.09
1	11	X	0.78
1	11	Z	-3.09
1	11	Y	-1.17
2	1	X	0.86
2	1	Z	-3.40
2	1	Y	1.17
2	2	X	0.86
2	2	Z	-3.40
2	3	X	0.86
2	3	Z	-3.40
2	4	X	0.86
2	4	Z	-3.40
2	5	X	0.86
2	5	Z	-3.40
2	6	X	0.86
2	6	Z	-3.40
2	7	X	0.86
2	7	Z	-3.40
2	8	X	0.86
2	8	Z	-3.40
2	9	X	0.86
2	9	Z	-3.40
2	10	X	0.86
2	10	Z	-3.40
2	10	Y	-1.17



Sheet #	296
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier12EB_Ped_A2.rcp	Checked	Date	

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
 Load: Design Truck + Lane Load
 Number of loaded lanes = 6
 Contributing longitudinal length = 142.09 ft

Loadcase ID: BR68 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-899.08 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.78
1	1	Z	-3.09
1	1	Y	1.17
1	2	X	0.78
1	2	Z	-3.09
1	3	X	0.78
1	3	Z	-3.09
1	4	X	0.78
1	4	Z	-3.09
1	5	X	0.78
1	5	Z	-3.09
1	6	X	0.78
1	6	Z	-3.09
1	7	X	0.78
1	7	Z	-3.09
1	8	X	0.78
1	8	Z	-3.09
1	9	X	0.78



Sheet #	297
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier12EB_Ped_A2.rcp	Checked	Date	

Line #	Bearing #	Dir	Load kips
1	9	Z	-3.09
1	10	X	0.78
1	10	Z	-3.09
1	11	X	0.78
1	11	Z	-3.09
1	11	Y	-1.17
2	1	X	0.86
2	1	Z	-3.40
2	1	Y	1.17
2	2	X	0.86
2	2	Z	-3.40
2	3	X	0.86
2	3	Z	-3.40
2	4	X	0.86
2	4	Z	-3.40
2	5	X	0.86
2	5	Z	-3.40
2	6	X	0.86
2	6	Z	-3.40
2	7	X	0.86
2	7	Z	-3.40
2	8	X	0.86
2	8	Z	-3.40
2	9	X	0.86
2	9	Z	-3.40
2	10	X	0.86
2	10	Z	-3.40
2	10	Y	-1.17

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
 Load: Design Truck + Lane Load
 Number of loaded lanes = 6
 Contributing longitudinal length = 142.09 ft

Loadcase ID: BR69 Name:
 Multiplier = 1.000



Sheet #	298
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier12EB_Ped_A2.rcp	Checked	Date	

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-899.08 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.78
1	1	Z	-3.09
1	1	Y	1.17
1	2	X	0.78
1	2	Z	-3.09
1	3	X	0.78
1	3	Z	-3.09
1	4	X	0.78
1	4	Z	-3.09
1	5	X	0.78
1	5	Z	-3.09
1	6	X	0.78
1	6	Z	-3.09
1	7	X	0.78
1	7	Z	-3.09
1	8	X	0.78
1	8	Z	-3.09
1	9	X	0.78
1	9	Z	-3.09
1	10	X	0.78
1	10	Z	-3.09
1	11	X	0.78
1	11	Z	-3.09
1	11	Y	-1.17
2	1	X	0.86
2	1	Z	-3.40
2	1	Y	1.17
2	2	X	0.86
2	2	Z	-3.40
2	3	X	0.86
2	3	Z	-3.40
2	4	X	0.86
2	4	Z	-3.40
2	5	X	0.86
2	5	Z	-3.40
2	6	X	0.86
2	6	Z	-3.40



Sheet #	299
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp	Date		

Line #	Bearing #	Dir	Load kips
2	7	X	0.86
2	7	Z	-3.40
2	8	X	0.86
2	8	Z	-3.40
2	9	X	0.86
2	9	Z	-3.40
2	10	X	0.86
2	10	Z	-3.40
2	10	Y	-1.17

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
 Load: Design Truck + Lane Load
 Number of loaded lanes = 6
 Contributing longitudinal length = 142.09 ft

Loadcase ID: BR70 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-587.86 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.51
1	1	Z	-2.02
1	1	Y	0.77
1	2	X	0.51



Sheet #	300
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp	Date		

Line #	Bearing #	Dir	Load kips
1	2	Z	-2.02
1	3	X	0.51
1	3	Z	-2.02
1	4	X	0.51
1	4	Z	-2.02
1	5	X	0.51
1	5	Z	-2.02
1	6	X	0.51
1	6	Z	-2.02
1	7	X	0.51
1	7	Z	-2.02
1	8	X	0.51
1	8	Z	-2.02
1	9	X	0.51
1	9	Z	-2.02
1	10	X	0.51
1	10	Z	-2.02
1	11	X	0.51
1	11	Z	-2.02
1	11	Y	-0.77
2	1	X	0.56
2	1	Z	-2.23
2	1	Y	0.77
2	2	X	0.56
2	2	Z	-2.23
2	3	X	0.56
2	3	Z	-2.23
2	4	X	0.56
2	4	Z	-2.23
2	5	X	0.56
2	5	Z	-2.23
2	6	X	0.56
2	6	Z	-2.23
2	7	X	0.56
2	7	Z	-2.23
2	8	X	0.56
2	8	Z	-2.23
2	9	X	0.56
2	9	Z	-2.23
2	10	X	0.56
2	10	Z	-2.23
2	10	Y	-0.77

Auto generation details:



Sheet # 301
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp			Date

Selected Live Load for BR generation

Load: Design Truck
Load: Design Truck + Lane Load
Number of loaded lanes = 3
Contributing longitudinal length = 142.09 ft

Loadcase ID: BR71 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-587.86 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.51
1	1	Z	-2.02
1	1	Y	0.77
1	2	X	0.51
1	2	Z	-2.02
1	3	X	0.51
1	3	Z	-2.02
1	4	X	0.51
1	4	Z	-2.02
1	5	X	0.51
1	5	Z	-2.02
1	6	X	0.51
1	6	Z	-2.02
1	7	X	0.51
1	7	Z	-2.02
1	8	X	0.51
1	8	Z	-2.02
1	9	X	0.51
1	9	Z	-2.02
1	10	X	0.51
1	10	Z	-2.02
1	11	X	0.51
1	11	Z	-2.02
1	11	Y	-0.77



Sheet # 302
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp			Date

Line #	Bearing #	Dir	Load kips
2	1	X	0.56
2	1	Z	-2.23
2	1	Y	0.77
2	2	X	0.56
2	2	Z	-2.23
2	3	X	0.56
2	3	Z	-2.23
2	4	X	0.56
2	4	Z	-2.23
2	5	X	0.56
2	5	Z	-2.23
2	6	X	0.56
2	6	Z	-2.23
2	7	X	0.56
2	7	Z	-2.23
2	8	X	0.56
2	8	Z	-2.23
2	9	X	0.56
2	9	Z	-2.23
2	10	X	0.56
2	10	Z	-2.23
2	10	Y	-0.77

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
Load: Design Truck + Lane Load
Number of loaded lanes = 3
Contributing longitudinal length = 142.09 ft

Loadcase ID: BR72 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-899.08 k-ft	0.50		



Sheet # 303

Job #

Program: LEAP® RC-PIER® V8i (SELECTseries 5)

SE Client Licenses

Designed KSM

Version: 12.01.00.57

Copyright © Bentley Systems, Inc. 2012

Date Sep/10/2013

www.bentley.com Phone: 1-800-778-4277

Checked

File Name: Pier12EB_Ped_A2.rcp

Date

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.78
1	1	Z	-3.09
1	1	Y	1.17
1	2	X	0.78
1	2	Z	-3.09
1	3	X	0.78
1	3	Z	-3.09
1	4	X	0.78
1	4	Z	-3.09
1	5	X	0.78
1	5	Z	-3.09
1	6	X	0.78
1	6	Z	-3.09
1	7	X	0.78
1	7	Z	-3.09
1	8	X	0.78
1	8	Z	-3.09
1	9	X	0.78
1	9	Z	-3.09
1	10	X	0.78
1	10	Z	-3.09
1	11	X	0.78
1	11	Z	-3.09
1	11	Y	-1.17
2	1	X	0.86
2	1	Z	-3.40
2	1	Y	1.17
2	2	X	0.86
2	2	Z	-3.40
2	3	X	0.86
2	3	Z	-3.40
2	4	X	0.86
2	4	Z	-3.40
2	5	X	0.86
2	5	Z	-3.40
2	6	X	0.86
2	6	Z	-3.40
2	7	X	0.86
2	7	Z	-3.40
2	8	X	0.86
2	8	Z	-3.40
2	9	X	0.86
2	9	Z	-3.40

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 304

Job #

Program: LEAP® RC-PIER® V8i (SELECTseries 5)

SE Client Licenses

Designed KSM

Version: 12.01.00.57

Copyright © Bentley Systems, Inc. 2012

Date Sep/10/2013

www.bentley.com Phone: 1-800-778-4277

Checked

File Name: Pier12EB_Ped_A2.rcp

Date

Line #	Bearing #	Dir	Load kips
2	10	X	0.86
2	10	Z	-3.40
2	10	Y	-1.17

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
 Load: Design Truck + Lane Load
 Number of loaded lanes = 6
 Contributing longitudinal length = 142.09 ft

Loadcase ID: BR73 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-461.07 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.40
1	1	Z	-1.59
1	1	Y	0.60
1	2	X	0.40
1	2	Z	-1.59
1	3	X	0.40
1	3	Z	-1.59
1	4	X	0.40
1	4	Z	-1.59
1	5	X	0.40

Units: US (English)

Design Code: AASHTO LRFD



Sheet #	305
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
File Name:		www.bentley.com	Phone:	1-800-778-4277
File Name:		Pier12EB_Ped_A2.rcp	Checked	
File Name:		Pier12EB_Ped_A2.rcp	Date	

Line #	Bearing #	Dir	Load kips
1	5	Z	-1.59
1	6	X	0.40
1	6	Z	-1.59
1	7	X	0.40
1	7	Z	-1.59
1	8	X	0.40
1	8	Z	-1.59
1	9	X	0.40
1	9	Z	-1.59
1	10	X	0.40
1	10	Z	-1.59
1	11	X	0.40
1	11	Z	-1.59
1	11	Y	-0.60
2	1	X	0.44
2	1	Z	-1.75
2	1	Y	0.60
2	2	X	0.44
2	2	Z	-1.75
2	3	X	0.44
2	3	Z	-1.75
2	4	X	0.44
2	4	Z	-1.75
2	5	X	0.44
2	5	Z	-1.75
2	6	X	0.44
2	6	Z	-1.75
2	7	X	0.44
2	7	Z	-1.75
2	8	X	0.44
2	8	Z	-1.75
2	9	X	0.44
2	9	Z	-1.75
2	10	X	0.44
2	10	Z	-1.75
2	10	Y	-0.60

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
 Load: Design Truck + Lane Load
 Number of loaded lanes = 2



Sheet #	306
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
File Name:		www.bentley.com	Phone:	1-800-778-4277
File Name:		Pier12EB_Ped_A2.rcp	Checked	
File Name:		Pier12EB_Ped_A2.rcp	Date	

Contributing longitudinal length = 142.09 ft

Loadcase ID: BR74 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-461.07 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.40
1	1	Z	-1.59
1	1	Y	0.60
1	2	X	0.40
1	2	Z	-1.59
1	3	X	0.40
1	3	Z	-1.59
1	4	X	0.40
1	4	Z	-1.59
1	5	X	0.40
1	5	Z	-1.59
1	6	X	0.40
1	6	Z	-1.59
1	7	X	0.40
1	7	Z	-1.59
1	8	X	0.40
1	8	Z	-1.59
1	9	X	0.40
1	9	Z	-1.59
1	10	X	0.40
1	10	Z	-1.59
1	11	X	0.40
1	11	Z	-1.59
1	11	Y	-0.60
2	1	X	0.44
2	1	Z	-1.75
2	1	Y	0.60
2	2	X	0.44



Sheet #	307
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp	Date		

Line #	Bearing #	Dir	Load kips
2	2	Z	-1.75
2	3	X	0.44
2	3	Z	-1.75
2	4	X	0.44
2	4	Z	-1.75
2	5	X	0.44
2	5	Z	-1.75
2	6	X	0.44
2	6	Z	-1.75
2	7	X	0.44
2	7	Z	-1.75
2	8	X	0.44
2	8	Z	-1.75
2	9	X	0.44
2	9	Z	-1.75
2	10	X	0.44
2	10	Z	-1.75
2	10	Y	-0.60

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
 Load: Design Truck + Lane Load
 Number of loaded lanes = 2
 Contributing longitudinal length = 142.09 ft

Loadcase ID: BR75 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-587.86 k-ft	0.50		



Sheet #	308
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp	Date		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.51
1	1	Z	-2.02
1	1	Y	0.77
1	2	X	0.51
1	2	Z	-2.02
1	3	X	0.51
1	3	Z	-2.02
1	4	X	0.51
1	4	Z	-2.02
1	5	X	0.51
1	5	Z	-2.02
1	6	X	0.51
1	6	Z	-2.02
1	7	X	0.51
1	7	Z	-2.02
1	8	X	0.51
1	8	Z	-2.02
1	9	X	0.51
1	9	Z	-2.02
1	10	X	0.51
1	10	Z	-2.02
1	11	X	0.51
1	11	Z	-2.02
1	11	Y	-0.77
2	1	X	0.56
2	1	Z	-2.23
2	1	Y	0.77
2	2	X	0.56
2	2	Z	-2.23
2	3	X	0.56
2	3	Z	-2.23
2	4	X	0.56
2	4	Z	-2.23
2	5	X	0.56
2	5	Z	-2.23
2	6	X	0.56
2	6	Z	-2.23
2	7	X	0.56
2	7	Z	-2.23
2	8	X	0.56
2	8	Z	-2.23
2	9	X	0.56
2	9	Z	-2.23
2	10	X	0.56
2	10	Z	-2.23
2	10	Y	-0.77



Sheet # 309

Job #

Program: LEAP® RC-PIER® V8i (SELECTseries 5)

SE Client Licenses

Designed KSM

Version: 12.01.00.57

Copyright © Bentley Systems, Inc. 2012

Date Sep/10/2013

www.bentley.com Phone: 1-800-778-4277

Checked

File Name: Pier12EB_Ped_A2.rcp

Date

Auto generation details:**Selected Live Load for BR generation**

Load: Design Truck
 Load: Design Truck + Lane Load
 Number of loaded lanes = 3
 Contributing longitudinal length = 142.09 ft

Loadcase ID: BR76 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-599.39 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.52
1	1	Z	-2.06
1	1	Y	0.78
1	2	X	0.52
1	2	Z	-2.06
1	3	X	0.52
1	3	Z	-2.06
1	4	X	0.52
1	4	Z	-2.06
1	5	X	0.52
1	5	Z	-2.06
1	6	X	0.52
1	6	Z	-2.06
1	7	X	0.52
1	7	Z	-2.06
1	8	X	0.52
1	8	Z	-2.06
1	9	X	0.52

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 310

Job #

Program: LEAP® RC-PIER® V8i (SELECTseries 5)

SE Client Licenses

Designed KSM

Version: 12.01.00.57

Copyright © Bentley Systems, Inc. 2012

Date Sep/10/2013

www.bentley.com Phone: 1-800-778-4277

Checked

File Name: Pier12EB_Ped_A2.rcp

Date

Line #	Bearing #	Dir	Load kips
1	9	Z	-2.06
1	10	X	0.52
1	10	Z	-2.06
1	11	X	0.52
1	11	Z	-2.06
1	11	Y	-0.78
2	1	X	0.57
2	1	Z	-2.27
2	1	Y	0.78
2	2	X	0.57
2	2	Z	-2.27
2	3	X	0.57
2	3	Z	-2.27
2	4	X	0.57
2	4	Z	-2.27
2	5	X	0.57
2	5	Z	-2.27
2	6	X	0.57
2	6	Z	-2.27
2	7	X	0.57
2	7	Z	-2.27
2	8	X	0.57
2	8	Z	-2.27
2	9	X	0.57
2	9	Z	-2.27
2	10	X	0.57
2	10	Z	-2.27
2	10	Y	-0.78

Auto generation details:**Selected Live Load for BR generation**

Load: Design Truck
 Load: Design Truck + Lane Load
 Number of loaded lanes = 4
 Contributing longitudinal length = 142.09 ft

Loadcase ID: BR77 Name:

Multiplier = 1.000

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 311
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
File Name:		www.bentley.com	Phone: 1-800-778-4277	Checked
			Date	

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-587.86 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.51
1	1	Z	-2.02
1	1	Y	0.77
1	2	X	0.51
1	2	Z	-2.02
1	3	X	0.51
1	3	Z	-2.02
1	4	X	0.51
1	4	Z	-2.02
1	5	X	0.51
1	5	Z	-2.02
1	6	X	0.51
1	6	Z	-2.02
1	7	X	0.51
1	7	Z	-2.02
1	8	X	0.51
1	8	Z	-2.02
1	9	X	0.51
1	9	Z	-2.02
1	10	X	0.51
1	10	Z	-2.02
1	11	X	0.51
1	11	Z	-2.02
1	11	Y	-0.77
2	1	X	0.56
2	1	Z	-2.23
2	1	Y	0.77
2	2	X	0.56
2	2	Z	-2.23
2	3	X	0.56
2	3	Z	-2.23
2	4	X	0.56
2	4	Z	-2.23
2	5	X	0.56
2	5	Z	-2.23
2	6	X	0.56
2	6	Z	-2.23

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 312
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
File Name:		www.bentley.com	Phone: 1-800-778-4277	Checked
			Date	

Line #	Bearing #	Dir	Load kips
2	7	X	0.56
2	7	Z	-2.23
2	8	X	0.56
2	8	Z	-2.23
2	9	X	0.56
2	9	Z	-2.23
2	10	X	0.56
2	10	Z	-2.23
2	10	Y	-0.77

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
Load: Design Truck + Lane Load
Number of loaded lanes = 3
Contributing longitudinal length = 142.09 ft

Loadcase ID: BR78 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-461.07 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.40
1	1	Z	-1.59
1	1	Y	0.60
1	2	X	0.40

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 313
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier12EB_Ped_A2.rcp	Checked	Date	

Line #	Bearing #	Dir	Load kips
1	2	Z	-1.59
1	3	X	0.40
1	3	Z	-1.59
1	4	X	0.40
1	4	Z	-1.59
1	5	X	0.40
1	5	Z	-1.59
1	6	X	0.40
1	6	Z	-1.59
1	7	X	0.40
1	7	Z	-1.59
1	8	X	0.40
1	8	Z	-1.59
1	9	X	0.40
1	9	Z	-1.59
1	10	X	0.40
1	10	Z	-1.59
1	11	X	0.40
1	11	Z	-1.59
1	11	Y	-0.60
2	1	X	0.44
2	1	Z	-1.75
2	1	Y	0.60
2	2	X	0.44
2	2	Z	-1.75
2	3	X	0.44
2	3	Z	-1.75
2	4	X	0.44
2	4	Z	-1.75
2	5	X	0.44
2	5	Z	-1.75
2	6	X	0.44
2	6	Z	-1.75
2	7	X	0.44
2	7	Z	-1.75
2	8	X	0.44
2	8	Z	-1.75
2	9	X	0.44
2	9	Z	-1.75
2	10	X	0.44
2	10	Z	-1.75
2	10	Y	-0.60

Auto generation details:



Sheet # 314
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier12EB_Ped_A2.rcp	Checked	Date	

Selected Live Load for BR generation

Load: Design Truck
Load: Design Truck + Lane Load
Number of loaded lanes = 2
Contributing longitudinal length = 142.09 ft

Loadcase ID: BR79 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-587.86 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.51
1	1	Z	-2.02
1	1	Y	0.77
1	2	X	0.51
1	2	Z	-2.02
1	3	X	0.51
1	3	Z	-2.02
1	4	X	0.51
1	4	Z	-2.02
1	5	X	0.51
1	5	Z	-2.02
1	6	X	0.51
1	6	Z	-2.02
1	7	X	0.51
1	7	Z	-2.02
1	8	X	0.51
1	8	Z	-2.02
1	9	X	0.51
1	9	Z	-2.02
1	10	X	0.51
1	10	Z	-2.02
1	11	X	0.51
1	11	Z	-2.02
1	11	Y	-0.77



Sheet #	315
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp	Date		

Line #	Bearing #	Dir	Load kips
2	1	X	0.56
2	1	Z	-2.23
2	1	Y	0.77
2	2	X	0.56
2	2	Z	-2.23
2	3	X	0.56
2	3	Z	-2.23
2	4	X	0.56
2	4	Z	-2.23
2	5	X	0.56
2	5	Z	-2.23
2	6	X	0.56
2	6	Z	-2.23
2	7	X	0.56
2	7	Z	-2.23
2	8	X	0.56
2	8	Z	-2.23
2	9	X	0.56
2	9	Z	-2.23
2	10	X	0.56
2	10	Z	-2.23
2	10	Y	-0.77

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
 Load: Design Truck + Lane Load
 Number of loaded lanes = 3
 Contributing longitudinal length = 142.09 ft

Loadcase ID: BR80 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-899.08 k-ft	0.50		



Sheet #	316
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp	Date		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.78
1	1	Z	-3.09
1	1	Y	1.17
1	2	X	0.78
1	2	Z	-3.09
1	3	X	0.78
1	3	Z	-3.09
1	4	X	0.78
1	4	Z	-3.09
1	5	X	0.78
1	5	Z	-3.09
1	6	X	0.78
1	6	Z	-3.09
1	7	X	0.78
1	7	Z	-3.09
1	8	X	0.78
1	8	Z	-3.09
1	9	X	0.78
1	9	Z	-3.09
1	10	X	0.78
1	10	Z	-3.09
1	11	X	0.78
1	11	Z	-3.09
1	11	Y	-1.17
2	1	X	0.86
2	1	Z	-3.40
2	1	Y	1.17
2	2	X	0.86
2	2	Z	-3.40
2	3	X	0.86
2	3	Z	-3.40
2	4	X	0.86
2	4	Z	-3.40
2	5	X	0.86
2	5	Z	-3.40
2	6	X	0.86
2	6	Z	-3.40
2	7	X	0.86
2	7	Z	-3.40
2	8	X	0.86
2	8	Z	-3.40
2	9	X	0.86
2	9	Z	-3.40



Sheet #	317
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier12EB_Ped_A2.rcp	Checked		
		Date		

Line #	Bearing #	Dir	Load kips
2	10	X	0.86
2	10	Z	-3.40
2	10	Y	-1.17

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
 Load: Design Truck + Lane Load
 Number of loaded lanes = 6
 Contributing longitudinal length = 142.09 ft

Loadcase ID: BR81 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-587.86 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.51
1	1	Z	-2.02
1	1	Y	0.77
1	2	X	0.51
1	2	Z	-2.02
1	3	X	0.51
1	3	Z	-2.02
1	4	X	0.51
1	4	Z	-2.02
1	5	X	0.51



Sheet #	318
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier12EB_Ped_A2.rcp	Checked		
		Date		

Line #	Bearing #	Dir	Load kips
1	5	Z	-2.02
1	6	X	0.51
1	6	Z	-2.02
1	7	X	0.51
1	7	Z	-2.02
1	8	X	0.51
1	8	Z	-2.02
1	9	X	0.51
1	9	Z	-2.02
1	10	X	0.51
1	10	Z	-2.02
1	11	X	0.51
1	11	Z	-2.02
1	11	Y	-0.77
2	1	X	0.56
2	1	Z	-2.23
2	1	Y	0.77
2	2	X	0.56
2	2	Z	-2.23
2	3	X	0.56
2	3	Z	-2.23
2	4	X	0.56
2	4	Z	-2.23
2	5	X	0.56
2	5	Z	-2.23
2	6	X	0.56
2	6	Z	-2.23
2	7	X	0.56
2	7	Z	-2.23
2	8	X	0.56
2	8	Z	-2.23
2	9	X	0.56
2	9	Z	-2.23
2	10	X	0.56
2	10	Z	-2.23
2	10	Y	-0.77

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
 Load: Design Truck + Lane Load
 Number of loaded lanes = 3



Sheet #	319
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp		Date	

Contributing longitudinal length = 142.09 ft

Loadcase ID: BR82 Name:
Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-461.07 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.40
1	1	Z	-1.59
1	1	Y	0.60
1	2	X	0.40
1	2	Z	-1.59
1	3	X	0.40
1	3	Z	-1.59
1	4	X	0.40
1	4	Z	-1.59
1	5	X	0.40
1	5	Z	-1.59
1	6	X	0.40
1	6	Z	-1.59
1	7	X	0.40
1	7	Z	-1.59
1	8	X	0.40
1	8	Z	-1.59
1	9	X	0.40
1	9	Z	-1.59
1	10	X	0.40
1	10	Z	-1.59
1	11	X	0.40
1	11	Z	-1.59
1	11	Y	-0.60
2	1	X	0.44
2	1	Z	-1.75
2	1	Y	0.60
2	2	X	0.44



Sheet #	320
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp		Date	

Line #	Bearing #	Dir	Load kips
2	2	Z	-1.75
2	3	X	0.44
2	3	Z	-1.75
2	4	X	0.44
2	4	Z	-1.75
2	5	X	0.44
2	5	Z	-1.75
2	6	X	0.44
2	6	Z	-1.75
2	7	X	0.44
2	7	Z	-1.75
2	8	X	0.44
2	8	Z	-1.75
2	9	X	0.44
2	9	Z	-1.75
2	10	X	0.44
2	10	Z	-1.75
2	10	Y	-0.60

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
Load: Design Truck + Lane Load
Number of loaded lanes = 2
Contributing longitudinal length = 142.09 ft

Loadcase ID: BR83 Name:
Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-899.08 k-ft	0.50		



Sheet #	321
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier12EB_Ped_A2.rcp	Checked		
		Date		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.78
1	1	Z	-3.09
1	1	Y	1.17
1	2	X	0.78
1	2	Z	-3.09
1	3	X	0.78
1	3	Z	-3.09
1	4	X	0.78
1	4	Z	-3.09
1	5	X	0.78
1	5	Z	-3.09
1	6	X	0.78
1	6	Z	-3.09
1	7	X	0.78
1	7	Z	-3.09
1	8	X	0.78
1	8	Z	-3.09
1	9	X	0.78
1	9	Z	-3.09
1	10	X	0.78
1	10	Z	-3.09
1	11	X	0.78
1	11	Z	-3.09
1	11	Y	-1.17
2	1	X	0.86
2	1	Z	-3.40
2	1	Y	1.17
2	2	X	0.86
2	2	Z	-3.40
2	3	X	0.86
2	3	Z	-3.40
2	4	X	0.86
2	4	Z	-3.40
2	5	X	0.86
2	5	Z	-3.40
2	6	X	0.86
2	6	Z	-3.40
2	7	X	0.86
2	7	Z	-3.40
2	8	X	0.86
2	8	Z	-3.40
2	9	X	0.86
2	9	Z	-3.40
2	10	X	0.86
2	10	Z	-3.40
2	10	Y	-1.17



Sheet #	322
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier12EB_Ped_A2.rcp	Checked		
		Date		

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
 Load: Design Truck + Lane Load
 Number of loaded lanes = 6
 Contributing longitudinal length = 142.09 ft

Loadcase ID: BR84 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-899.08 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.78
1	1	Z	-3.09
1	1	Y	1.17
1	2	X	0.78
1	2	Z	-3.09
1	3	X	0.78
1	3	Z	-3.09
1	4	X	0.78
1	4	Z	-3.09
1	5	X	0.78
1	5	Z	-3.09
1	6	X	0.78
1	6	Z	-3.09
1	7	X	0.78
1	7	Z	-3.09
1	8	X	0.78
1	8	Z	-3.09
1	9	X	0.78



Sheet #	323
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier12EB_Ped_A2.rcp	Checked	Date	

Line #	Bearing #	Dir	Load kips
1	9	Z	-3.09
1	10	X	0.78
1	10	Z	-3.09
1	11	X	0.78
1	11	Z	-3.09
1	11	Y	-1.17
2	1	X	0.86
2	1	Z	-3.40
2	1	Y	1.17
2	2	X	0.86
2	2	Z	-3.40
2	3	X	0.86
2	3	Z	-3.40
2	4	X	0.86
2	4	Z	-3.40
2	5	X	0.86
2	5	Z	-3.40
2	6	X	0.86
2	6	Z	-3.40
2	7	X	0.86
2	7	Z	-3.40
2	8	X	0.86
2	8	Z	-3.40
2	9	X	0.86
2	9	Z	-3.40
2	10	X	0.86
2	10	Z	-3.40
2	10	Y	-1.17

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
 Load: Design Truck + Lane Load
 Number of loaded lanes = 6
 Contributing longitudinal length = 142.09 ft

Loadcase ID: BR85 Name:
 Multiplier = 1.000



Sheet #	324
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier12EB_Ped_A2.rcp	Checked	Date	

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-899.08 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.78
1	1	Z	-3.09
1	1	Y	1.17
1	2	X	0.78
1	2	Z	-3.09
1	3	X	0.78
1	3	Z	-3.09
1	4	X	0.78
1	4	Z	-3.09
1	5	X	0.78
1	5	Z	-3.09
1	6	X	0.78
1	6	Z	-3.09
1	7	X	0.78
1	7	Z	-3.09
1	8	X	0.78
1	8	Z	-3.09
1	9	X	0.78
1	9	Z	-3.09
1	10	X	0.78
1	10	Z	-3.09
1	11	X	0.78
1	11	Z	-3.09
1	11	Y	-1.17
2	1	X	0.86
2	1	Z	-3.40
2	1	Y	1.17
2	2	X	0.86
2	2	Z	-3.40
2	3	X	0.86
2	3	Z	-3.40
2	4	X	0.86
2	4	Z	-3.40
2	5	X	0.86
2	5	Z	-3.40
2	6	X	0.86
2	6	Z	-3.40



Sheet #	325
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp	Date		

Line #	Bearing #	Dir	Load kips
2	7	X	0.86
2	7	Z	-3.40
2	8	X	0.86
2	8	Z	-3.40
2	9	X	0.86
2	9	Z	-3.40
2	10	X	0.86
2	10	Z	-3.40
2	10	Y	-1.17

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
 Load: Design Truck + Lane Load
 Number of loaded lanes = 6
 Contributing longitudinal length = 142.09 ft

Loadcase ID: BR86 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-461.07 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.40
1	1	Z	-1.59
1	1	Y	0.60
1	2	X	0.40



Sheet #	326
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp	Date		

Line #	Bearing #	Dir	Load kips
1	2	Z	-1.59
1	3	X	0.40
1	3	Z	-1.59
1	4	X	0.40
1	4	Z	-1.59
1	5	X	0.40
1	5	Z	-1.59
1	6	X	0.40
1	6	Z	-1.59
1	7	X	0.40
1	7	Z	-1.59
1	8	X	0.40
1	8	Z	-1.59
1	9	X	0.40
1	9	Z	-1.59
1	10	X	0.40
1	10	Z	-1.59
1	11	X	0.40
1	11	Z	-1.59
1	11	Y	-0.60
2	1	X	0.44
2	1	Z	-1.75
2	1	Y	0.60
2	2	X	0.44
2	2	Z	-1.75
2	3	X	0.44
2	3	Z	-1.75
2	4	X	0.44
2	4	Z	-1.75
2	5	X	0.44
2	5	Z	-1.75
2	6	X	0.44
2	6	Z	-1.75
2	7	X	0.44
2	7	Z	-1.75
2	8	X	0.44
2	8	Z	-1.75
2	9	X	0.44
2	9	Z	-1.75
2	10	X	0.44
2	10	Z	-1.75
2	10	Y	-0.60

Auto generation details:



Sheet # 327
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp		Date	

Selected Live Load for BR generation

Load: Design Truck
Load: Design Truck + Lane Load
Number of loaded lanes = 2
Contributing longitudinal length = 142.09 ft

Loadcase ID: BR87 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-899.08 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.78
1	1	Z	-3.09
1	1	Y	1.17
1	2	X	0.78
1	2	Z	-3.09
1	3	X	0.78
1	3	Z	-3.09
1	4	X	0.78
1	4	Z	-3.09
1	5	X	0.78
1	5	Z	-3.09
1	6	X	0.78
1	6	Z	-3.09
1	7	X	0.78
1	7	Z	-3.09
1	8	X	0.78
1	8	Z	-3.09
1	9	X	0.78
1	9	Z	-3.09
1	10	X	0.78
1	10	Z	-3.09
1	11	X	0.78
1	11	Z	-3.09
1	11	Y	-1.17



Sheet # 328
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp		Date	

Line #	Bearing #	Dir	Load kips
2	1	X	0.86
2	1	Z	-3.40
2	1	Y	1.17
2	2	X	0.86
2	2	Z	-3.40
2	3	X	0.86
2	3	Z	-3.40
2	4	X	0.86
2	4	Z	-3.40
2	5	X	0.86
2	5	Z	-3.40
2	6	X	0.86
2	6	Z	-3.40
2	7	X	0.86
2	7	Z	-3.40
2	8	X	0.86
2	8	Z	-3.40
2	9	X	0.86
2	9	Z	-3.40
2	10	X	0.86
2	10	Z	-3.40
2	10	Y	-1.17

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
Load: Design Truck + Lane Load
Number of loaded lanes = 6
Contributing longitudinal length = 142.09 ft

Loadcase ID: BR88 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-461.07 k-ft	0.50		



Sheet # 329
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp			Date

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.40
1	1	Z	-1.59
1	1	Y	0.60
1	2	X	0.40
1	2	Z	-1.59
1	3	X	0.40
1	3	Z	-1.59
1	4	X	0.40
1	4	Z	-1.59
1	5	X	0.40
1	5	Z	-1.59
1	6	X	0.40
1	6	Z	-1.59
1	7	X	0.40
1	7	Z	-1.59
1	8	X	0.40
1	8	Z	-1.59
1	9	X	0.40
1	9	Z	-1.59
1	10	X	0.40
1	10	Z	-1.59
1	11	X	0.40
1	11	Z	-1.59
1	11	Y	-0.60
2	1	X	0.44
2	1	Z	-1.75
2	1	Y	0.60
2	2	X	0.44
2	2	Z	-1.75
2	3	X	0.44
2	3	Z	-1.75
2	4	X	0.44
2	4	Z	-1.75
2	5	X	0.44
2	5	Z	-1.75
2	6	X	0.44
2	6	Z	-1.75
2	7	X	0.44
2	7	Z	-1.75
2	8	X	0.44
2	8	Z	-1.75
2	9	X	0.44
2	9	Z	-1.75

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 330
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp			Date

Line #	Bearing #	Dir	Load kips
2	10	X	0.44
2	10	Z	-1.75
2	10	Y	-0.60

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
Load: Design Truck + Lane Load
Number of loaded lanes = 2
Contributing longitudinal length = 142.09 ft

Loadcase ID: BR89 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-461.07 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.40
1	1	Z	-1.59
1	1	Y	0.60
1	2	X	0.40
1	2	Z	-1.59
1	3	X	0.40
1	3	Z	-1.59
1	4	X	0.40
1	4	Z	-1.59
1	5	X	0.40

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 331
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp	Date		

Line #	Bearing #	Dir	Load kips
1	5	Z	-1.59
1	6	X	0.40
1	6	Z	-1.59
1	7	X	0.40
1	7	Z	-1.59
1	8	X	0.40
1	8	Z	-1.59
1	9	X	0.40
1	9	Z	-1.59
1	10	X	0.40
1	10	Z	-1.59
1	11	X	0.40
1	11	Z	-1.59
1	11	Y	-0.60
2	1	X	0.44
2	1	Z	-1.75
2	1	Y	0.60
2	2	X	0.44
2	2	Z	-1.75
2	3	X	0.44
2	3	Z	-1.75
2	4	X	0.44
2	4	Z	-1.75
2	5	X	0.44
2	5	Z	-1.75
2	6	X	0.44
2	6	Z	-1.75
2	7	X	0.44
2	7	Z	-1.75
2	8	X	0.44
2	8	Z	-1.75
2	9	X	0.44
2	9	Z	-1.75
2	10	X	0.44
2	10	Z	-1.75
2	10	Y	-0.60

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
Load: Design Truck + Lane Load
Number of loaded lanes = 2



Sheet # 332
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp	Date		

Contributing longitudinal length = 142.09 ft

Loadcase ID: BR90 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-461.07 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.40
1	1	Z	-1.59
1	1	Y	0.60
1	2	X	0.40
1	2	Z	-1.59
1	3	X	0.40
1	3	Z	-1.59
1	4	X	0.40
1	4	Z	-1.59
1	5	X	0.40
1	5	Z	-1.59
1	6	X	0.40
1	6	Z	-1.59
1	7	X	0.40
1	7	Z	-1.59
1	8	X	0.40
1	8	Z	-1.59
1	9	X	0.40
1	9	Z	-1.59
1	10	X	0.40
1	10	Z	-1.59
1	11	X	0.40
1	11	Z	-1.59
1	11	Y	-0.60
2	1	X	0.44
2	1	Z	-1.75
2	1	Y	0.60
2	2	X	0.44



Sheet # 333
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp	Date		

Line #	Bearing #	Dir	Load kips
2	2	Z	-1.75
2	3	X	0.44
2	3	Z	-1.75
2	4	X	0.44
2	4	Z	-1.75
2	5	X	0.44
2	5	Z	-1.75
2	6	X	0.44
2	6	Z	-1.75
2	7	X	0.44
2	7	Z	-1.75
2	8	X	0.44
2	8	Z	-1.75
2	9	X	0.44
2	9	Z	-1.75
2	10	X	0.44
2	10	Z	-1.75
2	10	Y	-0.60

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
Load: Design Truck + Lane Load
Number of loaded lanes = 2
Contributing longitudinal length = 142.09 ft

Loadcase ID: BR91 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-461.07 k-ft	0.50		



Sheet # 334
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp	Date		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.40
1	1	Z	-1.59
1	1	Y	0.60
1	2	X	0.40
1	2	Z	-1.59
1	3	X	0.40
1	3	Z	-1.59
1	4	X	0.40
1	4	Z	-1.59
1	5	X	0.40
1	5	Z	-1.59
1	6	X	0.40
1	6	Z	-1.59
1	7	X	0.40
1	7	Z	-1.59
1	8	X	0.40
1	8	Z	-1.59
1	9	X	0.40
1	9	Z	-1.59
1	10	X	0.40
1	10	Z	-1.59
1	11	X	0.40
1	11	Z	-1.59
1	11	Y	-0.60
2	1	X	0.44
2	1	Z	-1.75
2	1	Y	0.60
2	2	X	0.44
2	2	Z	-1.75
2	3	X	0.44
2	3	Z	-1.75
2	4	X	0.44
2	4	Z	-1.75
2	5	X	0.44
2	5	Z	-1.75
2	6	X	0.44
2	6	Z	-1.75
2	7	X	0.44
2	7	Z	-1.75
2	8	X	0.44
2	8	Z	-1.75
2	9	X	0.44
2	9	Z	-1.75
2	10	X	0.44
2	10	Z	-1.75
2	10	Y	-0.60



Sheet #	335
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp			Date

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
 Load: Design Truck + Lane Load
 Number of loaded lanes = 2
 Contributing longitudinal length = 142.09 ft

Loadcase ID: BR92 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-461.07 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.40
1	1	Z	-1.59
1	1	Y	0.60
1	2	X	0.40
1	2	Z	-1.59
1	3	X	0.40
1	3	Z	-1.59
1	4	X	0.40
1	4	Z	-1.59
1	5	X	0.40
1	5	Z	-1.59
1	6	X	0.40
1	6	Z	-1.59
1	7	X	0.40
1	7	Z	-1.59
1	8	X	0.40
1	8	Z	-1.59
1	9	X	0.40



Sheet #	336
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp			Date

Line #	Bearing #	Dir	Load kips
1	9	Z	-1.59
1	10	X	0.40
1	10	Z	-1.59
1	11	X	0.40
1	11	Z	-1.59
1	11	Y	-0.60
2	1	X	0.44
2	1	Z	-1.75
2	1	Y	0.60
2	2	X	0.44
2	2	Z	-1.75
2	3	X	0.44
2	3	Z	-1.75
2	4	X	0.44
2	4	Z	-1.75
2	5	X	0.44
2	5	Z	-1.75
2	6	X	0.44
2	6	Z	-1.75
2	7	X	0.44
2	7	Z	-1.75
2	8	X	0.44
2	8	Z	-1.75
2	9	X	0.44
2	9	Z	-1.75
2	10	X	0.44
2	10	Z	-1.75
2	10	Y	-0.60

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
 Load: Design Truck + Lane Load
 Number of loaded lanes = 2
 Contributing longitudinal length = 142.09 ft

Loadcase ID: BR93 Name:

Multiplier = 1.000



Sheet # 337
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp		Date	

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-276.64 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.24
1	1	Z	-0.95
1	1	Y	0.36
1	2	X	0.24
1	2	Z	-0.95
1	3	X	0.24
1	3	Z	-0.95
1	4	X	0.24
1	4	Z	-0.95
1	5	X	0.24
1	5	Z	-0.95
1	6	X	0.24
1	6	Z	-0.95
1	7	X	0.24
1	7	Z	-0.95
1	8	X	0.24
1	8	Z	-0.95
1	9	X	0.24
1	9	Z	-0.95
1	10	X	0.24
1	10	Z	-0.95
1	11	X	0.24
1	11	Z	-0.95
1	11	Y	-0.36
2	1	X	0.26
2	1	Z	-1.05
2	1	Y	0.36
2	2	X	0.26
2	2	Z	-1.05
2	3	X	0.26
2	3	Z	-1.05
2	4	X	0.26
2	4	Z	-1.05
2	5	X	0.26
2	5	Z	-1.05
2	6	X	0.26
2	6	Z	-1.05

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 338
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp		Date	

Line #	Bearing #	Dir	Load kips
2	7	X	0.26
2	7	Z	-1.05
2	8	X	0.26
2	8	Z	-1.05
2	9	X	0.26
2	9	Z	-1.05
2	10	X	0.26
2	10	Z	-1.05
2	10	Y	-0.36

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
Load: Design Truck + Lane Load
Number of loaded lanes = 1
Contributing longitudinal length = 142.09 ft

Loadcase ID: BR94 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-276.64 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.24
1	1	Z	-0.95
1	1	Y	0.36
1	2	X	0.24

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 339
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier12EB_Ped_A2.rcp	Checked	Date	

Line #	Bearing #	Dir	Load kips
1	2	Z	-0.95
1	3	X	0.24
1	3	Z	-0.95
1	4	X	0.24
1	4	Z	-0.95
1	5	X	0.24
1	5	Z	-0.95
1	6	X	0.24
1	6	Z	-0.95
1	7	X	0.24
1	7	Z	-0.95
1	8	X	0.24
1	8	Z	-0.95
1	9	X	0.24
1	9	Z	-0.95
1	10	X	0.24
1	10	Z	-0.95
1	11	X	0.24
1	11	Z	-0.95
1	11	Y	-0.36
2	1	X	0.26
2	1	Z	-1.05
2	1	Y	0.36
2	2	X	0.26
2	2	Z	-1.05
2	3	X	0.26
2	3	Z	-1.05
2	4	X	0.26
2	4	Z	-1.05
2	5	X	0.26
2	5	Z	-1.05
2	6	X	0.26
2	6	Z	-1.05
2	7	X	0.26
2	7	Z	-1.05
2	8	X	0.26
2	8	Z	-1.05
2	9	X	0.26
2	9	Z	-1.05
2	10	X	0.26
2	10	Z	-1.05
2	10	Y	-0.36

Auto generation details:



Sheet # 340
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier12EB_Ped_A2.rcp	Checked	Date	

Selected Live Load for BR generation

Load: Design Truck
Load: Design Truck + Lane Load
Number of loaded lanes = 1
Contributing longitudinal length = 142.09 ft

Loadcase ID: BR95 Name:

Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Moment	X		-276.64 k-ft	0.50		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	0.24
1	1	Z	-0.95
1	1	Y	0.36
1	2	X	0.24
1	2	Z	-0.95
1	3	X	0.24
1	3	Z	-0.95
1	4	X	0.24
1	4	Z	-0.95
1	5	X	0.24
1	5	Z	-0.95
1	6	X	0.24
1	6	Z	-0.95
1	7	X	0.24
1	7	Z	-0.95
1	8	X	0.24
1	8	Z	-0.95
1	9	X	0.24
1	9	Z	-0.95
1	10	X	0.24
1	10	Z	-0.95
1	11	X	0.24
1	11	Z	-0.95
1	11	Y	-0.36



Sheet #	341
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp		Date	

Line #	Bearing #	Dir	Load kips
2	1	X	0.26
2	1	Z	-1.05
2	1	Y	0.36
2	2	X	0.26
2	2	Z	-1.05
2	3	X	0.26
2	3	Z	-1.05
2	4	X	0.26
2	4	Z	-1.05
2	5	X	0.26
2	5	Z	-1.05
2	6	X	0.26
2	6	Z	-1.05
2	7	X	0.26
2	7	Z	-1.05
2	8	X	0.26
2	8	Z	-1.05
2	9	X	0.26
2	9	Z	-1.05
2	10	X	0.26
2	10	Z	-1.05
2	10	Y	-0.36

Auto generation details:

Selected Live Load for BR generation

Load: Design Truck
 Load: Design Truck + Lane Load
 Number of loaded lanes = 1
 Contributing longitudinal length = 142.09 ft

Loadcase ID: WL1 Name: Angle: 0

Multiplier = 1.000



Sheet #	342
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp		Date	

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Z	-0.16
1	1	Y	-0.94
1	1	X	-0.63
1	2	Z	-0.16
1	2	Y	-0.00
1	2	X	-0.63
1	3	Z	-0.16
1	3	Y	-0.00
1	3	X	-0.63
1	4	Z	-0.16
1	4	Y	-0.00
1	4	X	-0.63
1	5	Z	-0.16
1	5	Y	-0.00
1	5	X	-0.63
1	6	X	-0.63
1	6	Y	-0.00
1	6	Z	-0.16
1	7	Z	-0.16
1	7	Y	-0.00
1	7	X	-0.63
1	8	Z	-0.16
1	8	Y	-0.00
1	8	X	-0.63
1	9	Z	-0.16
1	9	Y	-0.00
1	9	X	-0.63
1	10	Z	-0.16
1	10	Y	-0.00
1	10	X	-0.63
1	11	Z	-0.16
1	11	Y	0.94
1	11	X	-0.63
2	1	X	-0.69
2	1	Y	-0.94
2	1	Z	-0.17
2	2	X	-0.69
2	2	Y	-0.00
2	2	Z	-0.17
2	3	X	-0.69
2	3	Y	-0.00
2	3	Z	-0.17
2	4	X	-0.69
2	4	Y	-0.00
2	4	Z	-0.17
2	5	X	-0.69
2	5	Y	-0.00
2	5	Z	-0.17



Sheet #	343
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp	Date		

Line #	Bearing #	Dir	Load kips
	6	X	-0.69
2	6	Y	-0.00
	6	Z	-0.17
2	7	X	-0.69
2	7	Y	-0.00
2	7	Z	-0.17
2	8	X	-0.69
2	8	Y	-0.00
2	8	Z	-0.17
2	9	X	-0.69
2	9	Y	-0.00
2	9	Z	-0.17
2	10	X	-0.69
2	10	Y	0.94
2	10	Z	-0.17

Auto generation details:

Generated Wind Load on Live Load

Angle of wind = 0.00 deg Live load length = 142.09 ft

Loadcase ID: WL2 Name: Angle: 15

Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Z	-0.06
1	1	Y	-0.86
1	1	X	-0.57
1	2	Z	-0.06
1	2	Y	-0.00
1	2	X	-0.57
1	3	Z	-0.06



Sheet #	344
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp	Date		

Line #	Bearing #	Dir	Load kips
1	3	Y	-0.00
1	3	X	-0.57
1	4	Z	-0.06
1	4	Y	-0.00
1	4	X	-0.57
1	5	Z	-0.06
1	5	Y	-0.00
1	5	X	-0.57
1	6	X	-0.57
1	6	Y	-0.00
1	6	Z	-0.06
1	7	Z	-0.06
1	7	Y	-0.00
1	7	X	-0.57
1	8	Z	-0.06
1	8	Y	-0.00
1	8	X	-0.57
1	9	Z	-0.06
1	9	Y	-0.00
1	9	X	-0.57
1	10	Z	-0.06
1	10	Y	-0.00
1	10	X	-0.57
1	11	Z	-0.06
1	11	Y	0.86
1	11	X	-0.57
2	1	X	-0.63
2	1	Y	-0.86
2	1	Z	-0.07
2	2	X	-0.63
2	2	Y	-0.00
2	2	Z	-0.07
2	3	X	-0.63
2	3	Y	-0.00
2	3	Z	-0.07
2	4	X	-0.63
2	4	Y	-0.00
2	4	Z	-0.07
2	5	X	-0.63
2	5	Y	-0.00
2	5	Z	-0.07
2	6	X	-0.63
2	6	Y	-0.00
2	6	Z	-0.07
2	7	X	-0.63
2	7	Y	-0.00
2	7	Z	-0.07
2	8	X	-0.63
2	8	Y	-0.00



Sheet #	345
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp	Date		

Line #	Bearing #	Dir	Load kips
	8	Z	-0.07
2	9	X	-0.63
2	9	Y	-0.00
2	9	Z	-0.07
2	10	X	-0.63
2	10	Y	0.86
2	10	Z	-0.07

Auto generation details:

Generated Wind Load on Live Load

Angle of wind = 15.00 deg Live load length = 142.09 ft

Loadcase ID: WL3 Name: Angle: 30

Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Z	0.02
1	1	Y	-0.83
1	1	X	-0.55
1	2	Z	0.02
1	2	Y	-0.00
1	2	X	-0.55
1	3	Z	0.02
1	3	Y	-0.00
1	3	X	-0.55
1	4	Z	0.02
1	4	Y	-0.00
1	4	X	-0.55
1	5	Z	0.02
1	5	Y	-0.00
1	5	X	-0.55



Sheet #	346
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp	Date		

Line #	Bearing #	Dir	Load kips
1	6	X	-0.55
1	6	Y	-0.00
1	6	Z	0.02
1	7	Z	0.02
1	7	Y	-0.00
1	7	X	-0.55
1	8	Z	0.02
1	8	Y	-0.00
1	8	X	-0.55
1	9	Z	0.02
1	9	Y	-0.00
1	9	X	-0.55
1	10	Z	0.02
1	10	Y	-0.00
1	10	X	-0.55
1	11	Z	0.02
1	11	Y	0.83
1	11	X	-0.55
2	1	X	-0.61
2	1	Y	-0.83
2	1	Z	0.02
2	2	X	-0.61
2	2	Y	-0.00
2	2	Z	0.02
2	3	X	-0.61
2	3	Y	-0.00
2	3	Z	0.02
2	4	X	-0.61
2	4	Y	-0.00
2	4	Z	0.02
2	5	X	-0.61
2	5	Y	-0.00
2	5	Z	0.02
2	6	X	-0.61
2	6	Y	-0.00
2	6	Z	0.02
2	7	X	-0.61
2	7	Y	-0.00
2	7	Z	0.02
2	8	X	-0.61
2	8	Y	-0.00
2	8	Z	0.02
2	9	X	-0.61
2	9	Y	-0.00
2	9	Z	0.02
2	10	X	-0.61
2	10	Y	0.83
2	10	Z	0.02



Sheet #	347
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp		Date	

Auto generation details:

Generated Wind Load on Live Load

Angle of wind = 30.00 deg Live load length = 142.09 ft

Loadcase ID: WL4 Name: Angle: 45

Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Z	0.10
1	1	Y	-0.70
1	1	X	-0.46
1	2	Z	0.10
1	2	Y	-0.00
1	2	X	-0.46
1	3	Z	0.10
1	3	Y	-0.00
1	3	X	-0.46
1	4	Z	0.10
1	4	Y	-0.00
1	4	X	-0.46
1	5	Z	0.10
1	5	Y	-0.00
1	5	X	-0.46
1	6	X	-0.46
1	6	Y	-0.00
1	6	Z	0.10
1	7	Z	0.10
1	7	Y	-0.00
1	7	X	-0.46
1	8	Z	0.10
1	8	Y	-0.00
1	8	X	-0.46
1	9	Z	0.10



Sheet #	348
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp		Date	

Line #	Bearing #	Dir	Load kips
1	9	Y	-0.00
1	9	X	-0.46
1	10	Z	0.10
1	10	Y	-0.00
1	10	X	-0.46
1	11	Z	0.10
1	11	Y	0.70
1	11	X	-0.46
2	1	X	-0.51
2	1	Y	-0.70
2	1	Z	0.11
2	2	X	-0.51
2	2	Y	-0.00
2	2	Z	0.11
2	3	X	-0.51
2	3	Y	-0.00
2	3	Z	0.11
2	4	X	-0.51
2	4	Y	-0.00
2	4	Z	0.11
2	5	X	-0.51
2	5	Y	-0.00
2	5	Z	0.11
2	6	X	-0.51
2	6	Y	-0.00
2	6	Z	0.11
2	7	X	-0.51
2	7	Y	-0.00
2	7	Z	0.11
2	8	X	-0.51
2	8	Y	-0.00
2	8	Z	0.11
2	9	X	-0.51
2	9	Y	-0.00
2	9	Z	0.11
2	10	X	-0.51
2	10	Y	0.70
2	10	Z	0.11

Auto generation details:

Generated Wind Load on Live Load

Angle of wind = 45.00 deg Live load length = 142.09 ft



Sheet #	349
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp			Date

Loadcase ID: WL5 Name: Angle: 60
Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Z	0.18
1	1	Y	-0.41
1	1	X	-0.27
1	2	Z	0.18
1	2	Y	-0.00
1	2	X	-0.27
1	3	Z	0.18
1	3	Y	-0.00
1	3	X	-0.27
1	4	Z	0.18
1	4	Y	-0.00
1	4	X	-0.27
1	5	Z	0.18
1	5	Y	-0.00
1	5	X	-0.27
1	6	X	-0.27
1	6	Y	-0.00
1	6	Z	0.18
1	7	Z	0.18
1	7	Y	-0.00
1	7	X	-0.27
1	8	Z	0.18
1	8	Y	-0.00
1	8	X	-0.27
1	9	Z	0.18
1	9	Y	-0.00
1	9	X	-0.27
1	10	Z	0.18
1	10	Y	-0.00
1	10	X	-0.27
1	11	Z	0.18
1	11	Y	0.41
1	11	X	-0.27
2	1	X	-0.30
2	1	Y	-0.41
2	1	Z	0.20



Sheet #	350
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp			Date

Line #	Bearing #	Dir	Load kips
2	2	X	-0.30
2	2	Y	-0.00
2	2	Z	0.20
2	3	X	-0.30
2	3	Y	-0.00
2	3	Z	0.20
2	4	X	-0.30
2	4	Y	-0.00
2	4	Z	0.20
2	5	X	-0.30
2	5	Y	-0.00
2	5	Z	0.20
2	6	X	-0.30
2	6	Y	-0.00
2	6	Z	0.20
2	7	X	-0.30
2	7	Y	-0.00
2	7	Z	0.20
2	8	X	-0.30
2	8	Y	-0.00
2	8	Z	0.20
2	9	X	-0.30
2	9	Y	-0.00
2	9	Z	0.20
2	10	X	-0.30
2	10	Y	0.41
2	10	Z	0.20

Auto generation details:

Generated Wind Load on Live Load

Angle of wind = 60.00 deg Live load length = 142.09 ft

Loadcase ID: WL6 Name: Angle: 75

Multiplier = 1.000



Sheet #	351
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp			Date

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Z	0.24
1	1	Y	-0.23
1	1	X	-0.15
1	2	Z	0.24
1	2	Y	-0.00
1	2	X	-0.15
1	3	Z	0.24
1	3	Y	-0.00
1	3	X	-0.15
1	4	Z	0.24
1	4	Y	-0.00
1	4	X	-0.15
1	5	Z	0.24
1	5	Y	-0.00
1	5	X	-0.15
1	6	X	-0.15
1	6	Y	-0.00
1	6	Z	0.24
1	7	Z	0.24
1	7	Y	-0.00
1	7	X	-0.15
1	8	Z	0.24
1	8	Y	-0.00
1	8	X	-0.15
1	9	Z	0.24
1	9	Y	-0.00
1	9	X	-0.15
1	10	Z	0.24
1	10	Y	-0.00
1	10	X	-0.15
1	11	Z	0.24
1	11	Y	0.23
1	11	X	-0.15
2	1	X	-0.17
2	1	Y	-0.23
2	1	Z	0.27
2	2	X	-0.17
2	2	Y	-0.00
2	2	Z	0.27
2	3	X	-0.17
2	3	Y	-0.00
2	3	Z	0.27
2	4	X	-0.17
2	4	Y	-0.00
2	4	Z	0.27
2	5	X	-0.17

Units: US (English)

Design Code: AASHTO LRFD



Sheet #	352
Job #	

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp			Date

Line #	Bearing #	Dir	Load kips
2	5	Y	-0.00
2	5	Z	0.27
2	6	X	-0.17
2	6	Y	-0.00
2	6	Z	0.27
2	7	X	-0.17
2	7	Y	-0.00
2	7	Z	0.27
2	8	X	-0.17
2	8	Y	-0.00
2	8	Z	0.27
2	9	X	-0.17
2	9	Y	-0.00
2	9	Z	0.27
2	10	X	-0.17
2	10	Y	0.23
2	10	Z	0.27

Auto generation details:

Generated Wind Load on Live Load

Angle of wind = 75.00 deg Live load length = 142.09 ft

Selected load groups

STRENGTH GROUP I
 STRENGTH GROUP III
 STRENGTH GROUP V
 SERVICE GROUP I
 SERVICE GROUP II
 SERVICE GROUP III
 SERVICE GROUP IV
 EXTREME EVENT GROUP II

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 1
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Checked	
File Name:	Pier12EB_Ped_A2.rcp	Phone: 1-800-778-4277	Date	

COMBINED FOOTING DESIGN

Code: AASHTO LRFD (6th Edition, 2012)
Units: US
Pier View: Upstation.

GEOMETRY

Name : Footing
Shape : Rectangular, Type : Pile/Shaft Cap
Bf(X) = 87.50 ft, Hf(Z) = 22.00 ft, Thickness(Y) = 72.00 in
Ag = 1925.00 ft², Ix = 2520.00 ft⁴, Iz = 38127.19 ft⁴
Footing eccentric: Start at X = -8.00 ft from centerline of the leftmost column on the footing.
Footing eccentric: Start at Z = 11.00 ft from centerline of the leftmost column on the footing.
Columns located on the footing:
Column No. 1 at x = 0.00 ft Rectangular Chamfered
Width : 72.00 in
Depth : 48.00 in
Chamfer(X): 12.00 in
Chamfer(Z): 12.00 in
Column No. 2 at x = 37.08 ft Rectangular Chamfered
Width : 72.00 in
Depth : 48.00 in
Chamfer(X): 12.00 in
Chamfer(Z): 12.00 in
Column No. 3 at x = 71.25 ft Rectangular Chamfered
Width : 72.00 in
Depth : 48.00 in
Chamfer(X): 12.00 in
Chamfer(Z): 12.00 in
Piles: Square Size: W = 24.00 in
Service Capacity: 100.00 kips
Factored Capacity: 220.00 kips
Lateral Resistance: 50.00 kips
Piles Section Properties: Area = 4.00 ft² Ix = 27648.00 in⁴ Iz = 27648.00 in⁴

DESIGN PARAMETERS

fc = 5500.00 psi	fy = 60000.00 psi
phi flex = 0.90	phi shear = 0.90
Ec = 3845.8 ksi	Es = 29000.0 ksi
Crack check as per 2005 Interims	
Crack control Exposure = 1.00	
Concrete Type : Normal Weight.	



Sheet # 2
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Checked	
File Name:	Pier12EB_Ped_A2.rcp	Phone: 1-800-778-4277	Date	

Reinforcement Schedule

Dir	Quantity	Size	Bar dist. in	As total in ²	From ft	To ft	Hook
X	27	US#11[M36]	68.29	42.12	0.00	87.50	Both 90
X	27	US#11[M36]	51.71	42.12	0.00	87.50	Both 90
Z	226	US#11[M36]	53.21	352.56	----	----	None
Z	37	US#11[M36]	66.79	57.72	----	----	None

Pile Reactions, Service Load Effect @ Footing Bot.

Pile	X in	Z in	Batter X degree	Batter Z degree	col#	comb	Ovs	P kips	Mxx kft	Mzz kft	Pile Reac. kips
1	24.0	-108.0	0	0	1	7331	1.000	-7063.76	-4851.53	19800.99	164.78*
					2	7331	1.000	-7063.76	-4851.53	19800.99	
					3	7331	1.000	-7063.76	-4851.53	19800.99	
2	24.0	-36.0	0	0	1	7340	1.000	-6783.76	3570.41	-15440.29	91.77
					2	7340	1.000	-6783.76	3570.41	-15440.29	
					3	7340	1.000	-6783.76	3570.41	-15440.29	
					1	7331	1.000	-7063.76	-4851.53	19800.99	
					2	7331	1.000	-7063.76	-4851.53	19800.99	
					3	7331	1.000	-7063.76	-4851.53	19800.99	
3	24.0	36.0	0	0	1	6675	1.000	-6749.58	3002.87	-15734.11	100.02*
					2	6675	1.000	-6749.58	3002.87	-15734.11	
					3	6675	1.000	-6749.58	3002.87	-15734.11	
					1	7426	1.000	-7063.76	5357.94	21293.24	
					2	7426	1.000	-7063.76	5357.94	21293.24	
					3	7426	1.000	-7063.76	5357.94	21293.24	
4	24.0	108.0	0	0	1	7278	1.000	-6783.74	-3183.79	-16415.30	99.68
					2	7278	1.000	-6783.74	-3183.79	-16415.30	
					3	7278	1.000	-6783.74	-3183.79	-16415.30	
					1	7426	1.000	-7063.76	5357.94	21293.24	
					2	7426	1.000	-7063.76	5357.94	21293.24	
					3	7426	1.000	-7063.76	5357.94	21293.24	
5	96.0	-108.0	0	0	1	7249	1.000	-6826.90	-5602.92	-9273.14	91.92
					2	7249	1.000	-6826.90	-5602.92	-9273.14	
					3	7249	1.000	-6826.90	-5602.92	-9273.14	
					1	7331	1.000	-7063.76	-4851.53	19800.99	
					2	7331	1.000	-7063.76	-4851.53	19800.99	
					3	7331	1.000	-7063.76	-4851.53	19800.99	
6	96.0	-36.0	0	0	1	7341	1.000	-6826.02	5989.79	-7765.05	93.37
					2	7341	1.000	-6826.02	5989.79	-7765.05	
					3	7341	1.000	-6826.02	5989.79	-7765.05	
					1	7331	1.000	-7063.76	-4851.53	19800.99	
					2	7331	1.000	-7063.76	-4851.53	19800.99	
					3	7331	1.000	-7063.76	-4851.53	19800.99	



Sheet # 3

Job #

Program: LEAP® RC-PIER® V8i (SELECTseries 5)

SE Client Licenses

Designed KSM

Version: 12.01.00.57

Copyright © Bentley Systems, Inc. 2012

Date Sep/10/2013

www.bentley.com Phone: 1-800-778-4277

Checked

File Name: Pier12EB_Ped_A2.rcp

Date

Pile	X in	Z in	Batter X degree	Batter Z degree	col#	comb	Ovs	P kips	Mxx kft	Mzz kft	Pile Reac. kips
7	96.0	36.0	0	0	2	7331	1.000	-7063.76	-4851.53	19800.99	
					3	7331	1.000	-7063.76	-4851.53	19800.99	
					1	6675	1.000	-6749.58	3002.87	-15734.11	102.49*
8	96.0	108.0	0	0	2	6675	1.000	-6749.58	3002.87	-15734.11	
					3	6675	1.000	-6749.58	3002.87	-15734.11	
					1	7426	1.000	-7063.76	5357.94	21293.24	152.08*
9	170.3	-108.0	0	0	2	7426	1.000	-7063.76	5357.94	21293.24	
					3	7426	1.000	-7063.76	5357.94	21293.24	
					1	7278	1.000	-6783.74	-3183.79	-16415.30	102.26*
10	170.3	-36.0	0	0	2	7278	1.000	-6783.74	-3183.79	-16415.30	
					3	7278	1.000	-6783.74	-3183.79	-16415.30	
					1	7426	1.000	-7063.76	5357.94	21293.24	164.84*
11	170.3	36.0	0	0	2	7426	1.000	-7063.76	5357.94	21293.24	
					3	7426	1.000	-7063.76	5357.94	21293.24	
					1	7249	1.000	-6826.90	-5602.92	-9273.14	93.38
12	170.3	108.0	0	0	2	7249	1.000	-6826.90	-5602.92	-9273.14	
					3	7249	1.000	-6826.90	-5602.92	-9273.14	
					1	7331	1.000	-7063.76	-4851.53	19800.99	158.45*
13	244.5	-108.0	0	0	2	7331	1.000	-7063.76	-4851.53	19800.99	
					3	7331	1.000	-7063.76	-4851.53	19800.99	
					1	7341	1.000	-6826.02	5989.79	-7765.05	94.63
14	244.5	-36.0	0	0	2	7341	1.000	-6826.02	5989.79	-7765.05	
					3	7341	1.000	-6826.02	5989.79	-7765.05	
					1	7331	1.000	-7063.76	-4851.53	19800.99	146.90*
15	244.5	36.0	0	0	2	7331	1.000	-7063.76	-4851.53	19800.99	
					3	7331	1.000	-7063.76	-4851.53	19800.99	
					1	6675	1.000	-6749.58	3002.87	-15734.11	105.05*
16	244.5	108.0	0	0	2	6675	1.000	-6749.58	3002.87	-15734.11	
					3	6675	1.000	-6749.58	3002.87	-15734.11	
					1	7426	1.000	-7063.76	5357.94	21293.24	148.63*
17	318.8	-108.0	0	0	2	7426	1.000	-7063.76	5357.94	21293.24	
					3	7426	1.000	-7063.76	5357.94	21293.24	
					1	7278	1.000	-6783.74	-3183.79	-16415.30	104.93*
18	318.8	-36.0	0	0	2	7278	1.000	-6783.74	-3183.79	-16415.30	
					3	7278	1.000	-6783.74	-3183.79	-16415.30	
					1	7426	1.000	-7063.76	5357.94	21293.24	161.39*
19	318.8	36.0	0	0	2	7426	1.000	-7063.76	5357.94	21293.24	
					3	7426	1.000	-7063.76	5357.94	21293.24	
					1	7249	1.000	-6826.90	-5602.92	-9273.14	94.88
20	318.8	108.0	0	0	2	7249	1.000	-6826.90	-5602.92	-9273.14	
					3	7249	1.000	-6826.90	-5602.92	-9273.14	
					1	7331	1.000	-7063.76	-4851.53	19800.99	155.23*
21	393.0	-108.0	0	0	2	7331	1.000	-7063.76	-4851.53	19800.99	
					3	7331	1.000	-7063.76	-4851.53	19800.99	
					1	7341	1.000	-6826.02	5989.79	-7765.05	95.89
22	393.0	-36.0	0	0	2	7341	1.000	-6826.02	5989.79	-7765.05	
					3	7341	1.000	-6826.02	5989.79	-7765.05	
					1	7331	1.000	-7063.76	-4851.53	19800.99	143.68*

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 4

Job #

Program: LEAP® RC-PIER® V8i (SELECTseries 5)

SE Client Licenses

Designed KSM

Version: 12.01.00.57

Copyright © Bentley Systems, Inc. 2012

Date Sep/10/2013

www.bentley.com Phone: 1-800-778-4277

Checked

File Name: Pier12EB_Ped_A2.rcp

Date

Pile	X in	Z in	Batter X degree	Batter Z degree	col#	comb	Ovs	P kips	Mxx kft	Mzz kft	Pile Reac. kips
15	244.5	36.0	0	0	3	7331	1.000	-7063.76	-4851.53	19800.99	
					1	6707	1.000	-6614.94	2567.30	-12941.38	107.38*
					2	6707	1.000	-6614.94	2567.30	-12941.38	
16	244.5	108.0	0	0	3	6707	1.000	-6614.94	2567.30	-12941.38	
					1	7426	1.000	-7063.76	5357.94	21293.24	145.17*
					2	7426	1.000	-7063.76	5357.94	21293.24	
17	318.8	-108.0	0	0	3	7426	1.000	-7063.76	5357.94	21293.24	
					1	6440	1.000	-6542.58	-3226.99	-9761.58	107.19*
					2	6440	1.000	-6542.58	-3226.99	-9761.58	
18	318.8	-36.0	0	0	3	6440	1.000	-6542.58	-3226.99	-9761.58	
					1	7426	1.000	-7063.76	5357.94	21293.24	157.93*
					2	7426	1.000	-7063.76	5357.94	21293.24	
19	318.8	36.0	0	0	3	7426	1.000	-7063.76	5357.94	21293.24	
					1	7249	1.000	-6826.90	-5602.92	-9273.14	96.39
					2	7249	1.000	-6826.90	-5602.92	-9273.14	
20	318.8	108.0	0	0	3	7249	1.000	-6826.90	-5602.92	-9273.14	
					1	7331	1.000	-7063.76	-4851.53	19800.99	152.02*
					2	7331	1.000	-7063.76	-4851.53	19800.99	
21	393.0	-108.0	0	0	3	7331	1.000	-7063.76	-4851.53	19800.99	
					1	7341	1.000	-6826.02	5989.79	-7765.05	97.15
					2	7341	1.000	-6826.02	5989.79	-7765.05	
22	393.0	-36.0	0	0	3	7341	1.000	-6826.02	5989.79	-7765.05	
					1	7331	1.000	-7063.76	-4851.53	19800.99	140.47*
					2	7331	1.000	-7063.76	-4851.53	19800.99	
23	244.5	-108.0	0	0	2	7331	1.000	-7063.76	-4851.53	19800.99	
					3	7331	1.000	-7063.76	-4851.53	19800.99	
					1	6058	1.000	-6542.14	4060.13	-6834.53	109.04*
24	244.5	36.0	0	0	2	6058	1.000	-6542.14	4060.13	-6834.53	
					3	6058	1.000	-6542.14	4060.13	-6834.53	
					1	7426	1.000	-7063.76	5357.94	21293.24	141.72*
25	244.5	108.0	0	0	2	7426	1.000	-7063.76	5357.94	21293.24	
					3	7426	1.000	-7063.76	5357.94	21293.24	
					1	6630	1.000	-6542.58	-3672.74	-8816.84	108.65*
26	244.5	-108.0	0	0	2	6630	1.000	-6542.58	-3672.74	-8816.84	
					3	6630	1.000	-6542.58	-3672.74	-8816.84	
					1	7426	1.000	-7063.76	5357.94	21293.24	154.47*
27	244.5	36.0	0	0	2	7426	1.000	-7063.76	5357.94	21293.24	
					3	7426	1.000	-7063.76	5357.94	21293.24	
					1	6584	1.000	-6694.89	-5216.29	-7320.89	97.76
28	244.5	108.0	0	0	2	6584	1.000	-6694.89	-5216.29	-7320.89	
					3	6584	1.000	-6694.89	-5216.29	-7320.89	
					1	7331	1.000	-7063.76	-4851.53	19800.99	148.81*
29	244.5	-108.0	0	0	2	7331	1.000	-7063.76	-4851.53	19800.99	
					3	7331	1.000	-7063.76	-4851.53	19800.99	
					1	6011	1.000	-6694.22	5603.40	-4943.82	98.19
30	244.5	36.0	0	0	2	6011	1.000	-6694.22	5603.40	-4943.82	
					3	6011	1.000	-6694.22	5603.40	-4943.82	
					1	7331	1.000	-7063.76	-4851.53	19800.99	137.26*
31	244.5	108.0	0	0	2	7331	1.000	-7063.76	-4851.53	19800.99	
					3	7331	1.000	-7063.76	-4851.53	19800.99	
					1	7331	1.000	-7063.76	-4851.53	19800.99	

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 5
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Checked	
File Name:	Pier12EB_Ped_A2.rcp	Phone: 1-800-778-4277	Date	

Pile	X in	Z in	Batter X degree	Batter Z degree	col#	comb	Ovs	P kips	Mxx kft	Mzz kft	Pile Reac. kips
23	393.0	36.0	0	0	1	6035	1.000	-6480.18	3431.39	-5997.67	110.01*
					2	6035	1.000	-6480.18	3431.39	-5997.67	
					3	6035	1.000	-6480.18	3431.39	-5997.67	
					1	7426	1.000	-7063.76	5357.94	21293.24	138.26*
					2	7426	1.000	-7063.76	5357.94	21293.24	
					3	7426	1.000	-7063.76	5357.94	21293.24	
24	393.0	108.0	0	0	1	6608	1.000	-6480.53	-3043.89	-7816.69	109.99*
					2	6608	1.000	-6480.53	-3043.89	-7816.69	
					3	6608	1.000	-6480.53	-3043.89	-7816.69	
					1	7426	1.000	-7063.76	5357.94	21293.24	151.02*
					2	7426	1.000	-7063.76	5357.94	21293.24	
					3	7426	1.000	-7063.76	5357.94	21293.24	
25	467.3	-108.0	0	0	1	6584	1.000	-6694.89	-5216.29	-7320.89	98.95
					2	6584	1.000	-6694.89	-5216.29	-7320.89	
					3	6584	1.000	-6694.89	-5216.29	-7320.89	
					1	7331	1.000	-7063.76	4851.53	19800.99	145.59*
					2	7331	1.000	-7063.76	4851.53	19800.99	
					3	7331	1.000	-7063.76	4851.53	19800.99	
26	467.3	-36.0	0	0	1	6011	1.000	-6694.22	5603.40	-4943.82	99.00
					2	6011	1.000	-6694.22	5603.40	-4943.82	
					3	6011	1.000	-6694.22	5603.40	-4943.82	
					1	7331	1.000	-7063.76	4851.53	19800.99	134.04*
					2	7331	1.000	-7063.76	4851.53	19800.99	
					3	7331	1.000	-7063.76	4851.53	19800.99	
27	467.3	36.0	0	0	1	7625	1.000	-6049.85	-135.87	9950.38	109.26*
					2	7625	1.000	-6049.85	-135.87	9950.38	
					3	7625	1.000	-6049.85	-135.87	9950.38	
					1	7426	1.000	-7063.76	5357.94	21293.24	134.81*
					2	7426	1.000	-7063.76	5357.94	21293.24	
					3	7426	1.000	-7063.76	5357.94	21293.24	
28	467.3	108.0	0	0	1	7625	1.000	-6049.85	-135.87	9950.38	108.94*
					2	7625	1.000	-6049.85	-135.87	9950.38	
					3	7625	1.000	-6049.85	-135.87	9950.38	
					1	7426	1.000	-7063.76	5357.94	21293.24	147.56*
					2	7426	1.000	-7063.76	5357.94	21293.24	
					3	7426	1.000	-7063.76	5357.94	21293.24	
29	541.5	-108.0	0	0	1	6584	1.000	-6694.89	-5216.29	-7320.89	100.13*
					2	6584	1.000	-6694.89	-5216.29	-7320.89	
					3	6584	1.000	-6694.89	-5216.29	-7320.89	
					1	7306	1.000	-7063.73	4972.01	3116.73	143.72*
					2	7306	1.000	-7063.73	4972.01	3116.73	
					3	7306	1.000	-7063.73	4972.01	3116.73	
30	541.5	-36.0	0	0	1	6026	1.000	-6694.22	5603.40	13175.61	98.81
					2	6026	1.000	-6694.22	5603.40	13175.61	
					3	6026	1.000	-6694.22	5603.40	13175.61	
					1	7301	1.000	-7063.76	4851.53	11050.06	131.97*
					2	7301	1.000	-7063.76	4851.53	11050.06	
					3	7301	1.000	-7063.76	4851.53	11050.06	
					1	7625	1.000	-6049.85	-135.87	9950.38	107.65*
					2	7625	1.000	-6049.85	-135.87	9950.38	
					3	7625	1.000	-6049.85	-135.87	9950.38	

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 6
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Checked	
File Name:	Pier12EB_Ped_A2.rcp	Phone: 1-800-778-4277	Date	

Pile	X in	Z in	Batter X degree	Batter Z degree	col#	comb	Ovs	P kips	Mxx kft	Mzz kft	Pile Reac. kips
31	541.5	36.0	0	0	2	7625	1.000	-6049.85	-135.87	9950.38	
					3	7625	1.000	-6049.85	-135.87	9950.38	
					1	7396	1.000	-7063.76	5357.94	442.19	132.49*
32	541.5	108.0	0	0	2	7396	1.000	-7063.76	5357.94	442.19	
					3	7396	1.000	-7063.76	5357.94	442.19	
					1	7625	1.000	-6049.85	-135.87	9950.38	107.33*
					2	7625	1.000	-6049.85	-135.87	9950.38	
					3	7625	1.000	-6049.85	-135.87	9950.38	
					1	7396	1.000	-7063.76	5357.94	442.19	145.25*
33	624.2	-108.0	0	0	2	7396	1.000	-7063.76	5357.94	442.19	
					3	7396	1.000	-7063.76	5357.94	442.19	
					1	6599	1.000	-6694.89	-5216.29	10826.33	100.33*
					2	6599	1.000	-6694.89	-5216.29	10826.33	
					3	6599	1.000	-6694.89	-5216.29	10826.33	
					1	7303	1.000	-6866.37	-5497.77	-8969.67	144.36*
34	624.2	-36.0	0	0	2	7303	1.000	-6866.37	-5497.77	-8969.67	
					3	7303	1.000	-6866.37	-5497.77	-8969.67	
					1	6026	1.000	-6694.22	5603.40	13175.61	96.42
					2	6026	1.000	-6694.22	5603.40	13175.61	
					3	6026	1.000	-6694.22	5603.40	13175.61	
					1	7301	1.000	-7063.76	4851.53	-1050.06	132.16*
35	624.2	36.0	0	0	2	7301	1.000	-7063.76	4851.53	-1050.06	
					3	7301	1.000	-7063.76	4851.53	-1050.06	
					1	7625	1.000	-6049.85	-135.87	9950.38	105.85*
					2	7625	1.000	-6049.85	-135.87	9950.38	
					3	7625	1.000	-6049.85	-135.87	9950.38	
					1	7396	1.000	-7063.76	5357.94	442.19	132.41*
36	624.2	108.0	0	0	2	7396	1.000	-7063.76	5357.94	442.19	
					3	7396	1.000	-7063.76	5357.94	442.19	
					1	7625	1.000	-6049.85	-135.87	9950.38	105.53*
					2	7625	1.000	-6049.85	-135.87	9950.38	
					3	7625	1.000	-6049.85	-135.87	9950.38	
					1	7396	1.000	-7063.76	5357.94	442.19	145.17*
37	706.9	-108.0	0	0	2	7396	1.000	-7063.76	5357.94	442.19	
					3	7396	1.000	-7063.76	5357.94	442.19	
					1	4984	1.000	-6607.02	-4476.82	15712.59	98.29
					2	4984	1.000	-6607.02	-4476.82	15712.59	
					3	4984	1.000	-6607.02	-4476.82	15712.59	
					1	7303	1.000	-6866.37	-5497.77	-8969.67	145.98*
38	706.9	-36.0	0	0	2	7303	1.000	-6866.37	-5497.77	-8969.67	
					3	7303	1.000	-6866.37	-5497.77	-8969.67	
					1	7356	1.000	-6826.02	5989.79	15790.22	93.93
					2	7356	1.000	-6826.02	5989.79	15790.22	
					3	7356	1.000	-6826.02	5989.79	15790.22	
					1	7303	1.000	-6866.37	-5497.77	-8969.67	132.89*
					2	7303	1.000	-6866.37	-5497.77	-8969.67	
					3	7303	1.000	-6866.37	-5497.77	-8969.67	
					1	7625	1.000	-6049.85	-135.87	9950.38	104.05*
					2	7625	1.000	-6049.85	-135.87	9950.38	

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 7
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier12EB_Ped_A2.rcp		Checked	
			Date	

Pile	X in	Z in	Batter X degree	Batter Z degree	col#	comb	Ovs	P kips	Mxx kft	Mzz kft	Pile Reac. kips
39	706.9	36.0	0	0	3	7625	1.000	-6049.85	-135.87	9950.38	
					1	7396	1.000	-7063.76	5357.94	442.19	132.33*
					2	7396	1.000	-7063.76	5357.94	442.19	
40	706.9	108.0	0	0	3	7396	1.000	-7063.76	5357.94	442.19	
					1	7625	1.000	-6049.85	-135.87	9950.38	103.73*
					2	7625	1.000	-6049.85	-135.87	9950.38	
41	789.6	-108.0	0	0	3	7625	1.000	-6049.85	-135.87	9950.38	
					1	7341	1.000	-6826.02	5989.79	-7765.05	146.52*
					2	7341	1.000	-6826.02	5989.79	-7765.05	
42	789.6	-36.0	0	0	3	7341	1.000	-6826.02	5989.79	-7765.05	
					1	4984	1.000	-6607.02	-4476.82	15712.59	95.45
					2	4984	1.000	-6607.02	-4476.82	15712.59	
43	789.6	36.0	0	0	3	4984	1.000	-6607.02	-4476.82	15712.59	
					1	7303	1.000	-6866.37	-5497.77	-8969.67	147.60*
					2	7303	1.000	-6866.37	-5497.77	-8969.67	
44	789.6	108.0	0	0	3	7303	1.000	-6866.37	-5497.77	-8969.67	
					1	7356	1.000	-6826.02	5989.79	15790.22	91.07
					2	7356	1.000	-6826.02	5989.79	15790.22	
45	872.3	-108.0	0	0	3	7356	1.000	-6826.02	5989.79	15790.22	
					1	7278	1.000	-6783.74	-3183.79	-16415.30	134.73*
					2	7278	1.000	-6783.74	-3183.79	-16415.30	
46	872.3	-36.0	0	0	3	7278	1.000	-6783.74	-3183.79	-16415.30	
					1	5550	1.000	-6573.84	2579.60	22187.30	101.07*
					2	5550	1.000	-6573.84	2579.60	22187.30	
47	706.9	36.0	0	0	3	5550	1.000	-6573.84	2579.60	22187.30	
					1	7340	1.000	-6783.76	3570.41	-15440.29	134.61*
					2	7340	1.000	-6783.76	3570.41	-15440.29	
48	789.6	108.0	0	0	3	7340	1.000	-6783.76	3570.41	-15440.29	
					1	4980	1.000	-6573.84	-2555.35	21436.76	101.55*
					2	4980	1.000	-6573.84	-2555.35	21436.76	
49	789.6	-108.0	0	0	3	4980	1.000	-6573.84	-2555.35	21436.76	
					1	7341	1.000	-6826.02	5989.79	-7765.05	147.92*
					2	7341	1.000	-6826.02	5989.79	-7765.05	
50	789.6	36.0	0	0	3	7341	1.000	-6826.02	5989.79	-7765.05	
					1	4984	1.000	-6607.02	-4476.82	15712.59	92.61
					2	4984	1.000	-6607.02	-4476.82	15712.59	
51	789.6	108.0	0	0	3	4984	1.000	-6607.02	-4476.82	15712.59	
					1	7303	1.000	-6866.37	-5497.77	-8969.67	149.23*
					2	7303	1.000	-6866.37	-5497.77	-8969.67	
52	872.3	-108.0	0	0	3	7303	1.000	-6866.37	-5497.77	-8969.67	
					1	7356	1.000	-6826.02	5989.79	15790.22	88.22
					2	7356	1.000	-6826.02	5989.79	15790.22	
53	706.9	36.0	0	0	3	7356	1.000	-6826.02	5989.79	15790.22	
					1	7278	1.000	-6783.74	-3183.79	-16415.30	137.70*
					2	7278	1.000	-6783.74	-3183.79	-16415.30	
54	789.6	108.0	0	0	3	7278	1.000	-6783.74	-3183.79	-16415.30	
					1	5550	1.000	-6573.84	2579.60	22187.30	97.06
					2	5550	1.000	-6573.84	2579.60	22187.30	
55	872.3	-36.0	0	0	3	5550	1.000	-6573.84	2579.60	22187.30	
					1	7340	1.000	-6783.76	3570.41	-15440.29	134.61*
					2	7340	1.000	-6783.76	3570.41	-15440.29	
56	789.6	108.0	0	0	3	7340	1.000	-6783.76	3570.41	-15440.29	
					1	4980	1.000	-6573.84	-2555.35	21436.76	101.55*
					2	4980	1.000	-6573.84	-2555.35	21436.76	
57	789.6	-108.0	0	0	3	4980	1.000	-6573.84	-2555.35	21436.76	
					1	7341	1.000	-6826.02	5989.79	-7765.05	147.92*
					2	7341	1.000	-6826.02	5989.79	-7765.05	
58	789.6	36.0	0	0	3	7341	1.000	-6826.02	5989.79	-7765.05	
					1	4984	1.000	-6607.02	-4476.82	15712.59	92.61
					2	4984	1.000	-6607.02	-4476.82	15712.59	
59	789.6	108.0	0	0	3	4984	1.000	-6607.02	-4476.82	15712.59	
					1	7303	1.000	-6866.37	-5497.77	-8969.67	149.23*
					2	7303	1.000	-6866.37	-5497.77	-8969.67	
60	872.3	-108.0	0	0	3	7303	1.000	-6866.37	-5497.77	-8969.67	
					1	7356	1.000	-6826.02	5989.79	15790.22	88.22
					2	7356	1.000	-6826.02	5989.79	15790.22	
61	706.9	36.0	0	0	3	7356	1.000	-6826.02	5989.79	15790.22	
					1	7278	1.000	-6783.74	-3183.79	-16415.30	137.70*
					2	7278	1.000	-6783.74	-3183.79	-16415.30	
62	789.6	108.0	0	0	3	7278	1.000	-6783.74	-3183.79	-16415.30	
					1	5550	1.000	-6573.84	2579.60	22187.30	97.06
					2	5550	1.000	-6573.84	2579.60	22187.30	
63	872.3	-36.0	0	0	3	5550	1.000	-6573.84	2579.60	22187.30	
					1	7340	1.000	-6783.76	3570.41	-15440.29	134.61*
					2	7340	1.000	-6783.76	3570.41	-15440.29	
64	789.6	108.0	0	0	3	7340	1.000	-6783.76	3570.41	-15440.29	
					1	4980	1.000	-6573.84	-2555.35	21436.76	101.55*
					2	4980	1.000	-6573.84	-2555.35	21436.76	
65	789.6	-108.0	0	0	3	4980	1.000	-6573.84	-2555.35	21436.76	
					1	7341	1.000	-6826.02	5989.79	-7765.05	147.92*
					2	7341	1.000	-6826.02	5989.79	-7765.05	
66	789.6	36.0	0	0	3	7341	1.000	-6826.02	5989.79	-7765.05	
					1	4984	1.000	-6607.02	-4476.82	15712.59	92.61
					2	4984	1.000	-6607.02	-4476.82	15712.59	
67	789.6	108.0	0	0	3	4984	1.000	-6607.02	-4476.82	15712.59	
					1	7303	1.000	-6866.37	-5497.77	-8969.67	149.23*
					2	7303	1.000	-6866.37	-5497.77	-8969.67	
68	872.3	-108.0	0	0	3	7303	1.000	-6866.37	-5497.77	-8969.67	
					1	7356	1.000	-6826.02	5989.79	15790.22	88.22
					2	7356	1.000	-6826.02	5989.79	15790.22	
69	706.9	36.0	0	0	3	7356	1.000	-6826.02	5989.79	15790.22	
					1	7278	1.000	-6783.74	-3183.79	-16415.30	137.70*
					2	7278	1.000	-6783.74	-3183.79	-16415.30	
70	789.6	108.0	0	0	3	7278	1.000	-6783.74	-3183.79	-16415.30	
					1	5550	1.000	-6573.84	2579.60	22187.30	97.06
					2	5550	1.000	-6573.84	2579.60	22187.30	
71	872.3	-36.0	0	0	3	5550	1.000	-6573.84	2579.60	22187.30	
					1	7340	1.000	-6783.76	3570.41	-15440.29	134.61*
					2	7340	1.000	-6783.76	3570.41	-15440.29	
72	789.6	108.0	0	0	3	7340	1.000	-6783.76	3570.41	-15440.29	
					1	4980	1.000	-6573.84	-2555.35	21436.76	101.55*
					2	4980	1.000	-6573.84	-2555.35	21436.76	
73	789.6	-108.0	0	0	3	4980	1.000	-6573.84	-2555.35	21436.76	
					1	7341	1.000	-6826.02	5989.79	-7765.05	147.92*
					2	7341	1.000	-6826.02	5989.79	-7765.05	
74	789.6	36.0	0	0	3	7341	1.000	-6826.02	5989.79	-7765.05	
					1	4984	1.000	-6607.02	-4476.82	15712.59	92.61
					2	4984	1.000	-6607.02	-4476.82	15712.59	
75	789.6	108.0	0	0	3	4984	1.000	-6607.02	-4476.82	15712.59	
					1	7303	1.000	-6866.37	-5497.77	-8969.67	149.23*
					2	7303	1.000	-6866.37	-5497.77	-8969.67	
76	872.3	-108.0	0	0	3	7303	1.000	-6866.37	-5497.77	-8969.67	
					1	7356	1.000	-6826.02	5989.79	15790.22	88.22
					2	7356	1.000	-6826.02	5989.79	15790.22	
77	706.9	36.0	0	0	3	7356	1.000	-6826.02	5989.79	15790.22	
					1	7278	1.000	-6783.74	-3183.79	-16415.30	137.70*
					2	7278	1.000	-6783.74	-3183.79	-16415.30	
78	789.6	108.0	0	0	3	7278	1.000	-6783.74	-3183.79	-16415.30	
					1	5550	1.000	-6573.84	2579.60	22187.30	97.06
					2	5550	1.000	-6573.84	2579.60	22187.30	
79	872.3	-36.0	0	0	3	5550	1.000	-6573.84	2579.60	22187.30	
					1	7340	1.000	-6783.76	3570.41	-15440.29	134.61*
					2	7340	1.000	-6783.76	3570.41	-15440.29	
80	789.6	108.0	0	0	3	7340	1.000	-6783.76	3570.41	-15440.29	
					1	4980	1.000	-6573.84	-2555.35	21436.76	101.55*
					2	4980	1.000	-6573.84	-2555.35	21436.76	
81	789.6	-108.0	0	0	3	4980	1.000	-6573.84	-2555.35	21436.76	
					1	7341	1.000	-6826.02	5989.79	-7765.05	147.92*
					2	7341	1.000	-6826.02	5989.79	-7765.05	
82	789.6	36.0	0	0	3	7341	1.000	-6826.02	5989.79	-7765.05</	



Sheet # 9
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier12EB_Ped_A2.rcp		Checked	
			Date	

Pile	X in	Z in	Batter X degree	Batter Z degree	col#	comb	Ovs	P kips	Mxx kft	Mzz kft	Pile Reac. kips
56	1027.0	108.0	0	0	2	7340	1.000	-6783.76	3570.41	-15440.29	90.43
					3	7340	1.000	-6783.76	3570.41	-15440.29	
					1	4980	1.000	-6573.84	-2555.35	21436.76	
56	1027.0	108.0	0	0	2	4980	1.000	-6573.84	-2555.35	21436.76	151.95*
					3	4980	1.000	-6573.84	-2555.35	21436.76	
					1	7341	1.000	-6826.02	5989.79	-7765.05	
56	1027.0	108.0	0	0	2	7341	1.000	-6826.02	5989.79	-7765.05	84.34
					3	7341	1.000	-6826.02	5989.79	-7765.05	
					1	4980	1.000	-6573.84	-2555.35	21436.76	
56	1027.0	108.0	0	0	2	4980	1.000	-6573.84	-2555.35	21436.76	
					3	4980	1.000	-6573.84	-2555.35	21436.76	
					3	4980	1.000	-6573.84	-2555.35	21436.76	

Pile Reactions, Factored Load Effect @ Footing Bot.

Pile	X in	Z in	Batter X degree	Batter Z degree	col#	comb	Ovs	P kips	Mxx kft	Mzz kft	Pile Reac. kips
1	24.00	-108.0	0	0	1	87	---	-8907.48	-6549.55	26479.85	210.95
					2	87	---	-8907.48	-6549.55	26479.85	
					3	87	---	-8907.48	-6549.55	26479.85	
1	24.00	-108.0	0	0	1	286	---	-6341.35	4719.79	-21598.55	73.14
					2	286	---	-6341.35	4719.79	-21598.55	
					3	286	---	-6341.35	4719.79	-21598.55	
2	24.00	-36.0	0	0	1	87	---	-8907.48	-6549.55	26479.85	195.36
					2	87	---	-8907.48	-6549.55	26479.85	
					3	87	---	-8907.48	-6549.55	26479.85	
2	24.00	-36.0	0	0	1	4395	---	-6295.78	3939.64	-21725.38	84.35
					2	4395	---	-6295.78	3939.64	-21725.38	
					3	4395	---	-6295.78	3939.64	-21725.38	
3	24.00	36.0	0	0	1	182	---	-8907.48	7193.97	28488.65	198.29
					2	182	---	-8907.48	7193.97	28488.65	
					3	182	---	-8907.48	7193.97	28488.65	
3	24.00	36.0	0	0	1	224	---	-6341.32	-4372.41	-22911.04	83.37
					2	224	---	-6341.32	-4372.41	-22911.04	
					3	224	---	-6341.32	-4372.41	-22911.04	
4	24.00	108.0	0	0	1	182	---	-8907.48	7193.97	28488.65	215.42
					2	182	---	-8907.48	7193.97	28488.65	
					3	182	---	-8907.48	7193.97	28488.65	
4	24.00	108.0	0	0	1	195	---	-6399.42	-7628.93	-13296.62	72.72
					2	195	---	-6399.42	-7628.93	-13296.62	
					3	195	---	-6399.42	-7628.93	-13296.62	
5	96.00	-108.0	0	0	1	87	---	-8907.48	-6549.55	26479.85	206.79
					2	87	---	-8907.48	-6549.55	26479.85	
					3	87	---	-8907.48	-6549.55	26479.85	
5	96.00	-108.0	0	0	1	287	---	-6398.24	7976.64	-11266.48	75.41
					2	287	---	-6398.24	7976.64	-11266.48	
					3	287	---	-6398.24	7976.64	-11266.48	
6	96.00	-36.0	0	0	1	87	---	-8907.48	-6549.55	26479.85	191.19
					2	87	---	-8907.48	-6549.55	26479.85	
					3	87	---	-8907.48	-6549.55	26479.85	

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 10
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier12EB_Ped_A2.rcp		Checked	
			Date	

Pile	X in	Z in	Batter X degree	Batter Z degree	col#	comb	Ovs	P kips	Mxx kft	Mzz kft	Pile Reac. kips
7	96.00	36.0	0	0	2	87	---	-8907.48	-6549.55	26479.85	87.77
					3	87	---	-8907.48	-6549.55	26479.85	
					1	4395	---	-6295.78	3939.64	-21725.38	
7	96.00	36.0	0	0	2	4395	---	-6295.78	3939.64	-21725.38	193.81
					3	4395	---	-6295.78	3939.64	-21725.38	
					1	182	---	-8907.48	7193.97	28488.65	
7	96.00	36.0	0	0	2	182	---	-8907.48	7193.97	28488.65	86.98
					3	182	---	-8907.48	7193.97	28488.65	
					1	224	---	-6341.32	-4372.41	-22911.04	
7	96.00	36.0	0	0	2	224	---	-6341.32	-4372.41	-22911.04	210.93
					3	224	---	-6341.32	-4372.41	-22911.04	
					1	182	---	-8907.48	7193.97	28488.65	
8	96.00	108.0	0	0	2	182	---	-8907.48	7193.97	28488.65	74.81
					3	182	---	-8907.48	7193.97	28488.65	
					1	195	---	-6399.42	-7628.93	-13296.62	
8	96.00	108.0	0	0	2	195	---	-6399.42	-7628.93	-13296.62	202.49
					3	195	---	-6399.42	-7628.93	-13296.62	
					1	87	---	-8907.48	-6549.55	26479.85	
8	96.00	108.0	0	0	2	87	---	-8907.48	-6549.55	26479.85	77.24
					3	87	---	-8907.48	-6549.55	26479.85	
					1	287	---	-6398.24	7976.64	-11266.48	
8	96.00	108.0	0	0	2	287	---	-6398.24	7976.64	-11266.48	186.90
					3	287	---	-6398.24	7976.64	-11266.48	
					1	87	---	-8907.48	-6549.55	26479.85	
9	170.25	-108.0	0	0	2	87	---	-8907.48	-6549.55	26479.85	91.28
					3	87	---	-8907.48	-6549.55	26479.85	
					1	286	---	-6341.35	4719.79	-21598.55	
9	170.25	-108.0	0	0	2	286	---	-6341.35	4719.79	-21598.55	189.18
					3	286	---	-6341.35	4719.79	-21598.55	
					1	182	---	-8907.48	7193.97	28488.65	
9	170.25	-108.0	0	0	2	182	---	-8907.48	7193.97	28488.65	90.70
					3	182	---	-8907.48	7193.97	28488.65	
					1	224	---	-6341.32	-4372.41	-22911.04	
9	170.25	-108.0	0	0	2	224	---	-6341.32	-4372.41	-22911.04	206.31
					3	224	---	-6341.32	-4372.41	-22911.04	
					1	182	---	-8907.48	7193.97	28488.65	
10	170.25	-36.0	0	0	2	182	---	-8907.48	7193.97	28488.65	76.97
					3	182	---	-8907.48	7193.97	28488.65	
					1	195	---	-6399.42	-7628.93	-13296.62	
10	170.25	-36.0	0	0	2	195	---	-6399.42	-7628.93	-13296.62	198.19
					3	195	---	-6399.42	-7628.93	-13296.62	
					1	87	---	-8907.48	-6549.55	26479.85	
10	170.25	-36.0	0	0	2	87	---	-8907.48	-6549.55	26479.85	79.07
					3	87	---	-8907.48	-6549.55	26479.85	
					1	287	---	-6398.24	7976.64	-11266.48	
10	170.25	-36.0	0	0	2	287	---	-6398.24	7976.64	-11266.48	182.60
					3	287	---	-6398.24	7976.64	-11266.48	
					1	87	---	-8907.48	-6549.55	26479.85	
10	170.25	-36.0	0	0	2	87	---	-8907.48	-6549.55	26479.85	
					3	87	---	-8907.48	-6549.55	26479.85	
					1	182	---	-8907.48	7193.97	28488.65	

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 11

Job #

Program: LEAP® RC-PIER® V8i (SELECTseries 5)

SE Client Licenses

Designed KSM

Version: 12.01.00.57

Copyright © Bentley Systems, Inc. 2012

Date Sep/10/2013

www.bentley.com Phone: 1-800-778-4277

Checked

File Name: Pier12EB_Ped_A2.rcp

Date

Pile	X in	Z in	Batter X degree	Batter Z degree	col#	comb	Ovs	P kips	Mxx kft	Mzz kft	Pile Reac. kips
15	244.50	36.0	0	0	3	87	---	-8907.48	-6549.55	26479.85	
					1	318	---	-6105.73	3957.54	-16711.25	94.39
					2	318	---	-6105.73	3957.54	-16711.25	
					3	318	---	-6105.73	3957.54	-16711.25	
					1	182	---	-8907.48	7193.97	28488.65	184.56
					2	182	---	-8907.48	7193.97	28488.65	
					3	182	---	-8907.48	7193.97	28488.65	
					1	4160	---	-6017.79	-4385.40	-13785.55	94.05
					2	4160	---	-6017.79	-4385.40	-13785.55	
					3	4160	---	-6017.79	-4385.40	-13785.55	
16	244.50	108.0	0	0	1	182	---	-8907.48	7193.97	28488.65	201.69
					2	182	---	-8907.48	7193.97	28488.65	
					3	182	---	-8907.48	7193.97	28488.65	
					1	195	---	-6399.42	-7628.93	-13296.62	79.13
					2	195	---	-6399.42	-7628.93	-13296.62	
					3	195	---	-6399.42	-7628.93	-13296.62	
17	318.75	-108.0	0	0	1	87	---	-8907.48	-6549.55	26479.85	193.90
					2	87	---	-8907.48	-6549.55	26479.85	
					3	87	---	-8907.48	-6549.55	26479.85	
					1	287	---	-6398.24	7976.64	-11266.48	80.90
					2	287	---	-6398.24	7976.64	-11266.48	
					3	287	---	-6398.24	7976.64	-11266.48	
18	318.75	-36.0	0	0	1	87	---	-8907.48	-6549.55	26479.85	178.30
					2	87	---	-8907.48	-6549.55	26479.85	
					3	87	---	-8907.48	-6549.55	26479.85	
					1	3778	---	-6017.19	5295.53	-10110.66	96.78
					2	3778	---	-6017.19	5295.53	-10110.66	
					3	3778	---	-6017.19	5295.53	-10110.66	
19	318.75	36.0	0	0	1	182	---	-8907.48	7193.97	28488.65	179.94
					2	182	---	-8907.48	7193.97	28488.65	
					3	182	---	-8907.48	7193.97	28488.65	
					1	4350	---	-6017.79	-4947.12	-12659.79	96.10
					2	4350	---	-6017.79	-4947.12	-12659.79	
					3	4350	---	-6017.79	-4947.12	-12659.79	
20	318.75	108.0	0	0	1	182	---	-8907.48	7193.97	28488.65	197.06
					2	182	---	-8907.48	7193.97	28488.65	
					3	182	---	-8907.48	7193.97	28488.65	
					1	195	---	-6399.42	-7628.93	-13296.62	81.28
					2	195	---	-6399.42	-7628.93	-13296.62	
					3	195	---	-6399.42	-7628.93	-13296.62	
21	393.00	-108.0	0	0	1	87	---	-8907.48	-6549.55	26479.85	189.60
					2	87	---	-8907.48	-6549.55	26479.85	
					3	87	---	-8907.48	-6549.55	26479.85	
					1	3731	---	-6222.50	7378.94	-7558.20	82.72
					2	3731	---	-6222.50	7378.94	-7558.20	
					3	3731	---	-6222.50	7378.94	-7558.20	
22	393.00	-36.0	0	0	1	87	---	-8907.48	-6549.55	26479.85	174.00
					2	87	---	-8907.48	-6549.55	26479.85	
					3	87	---	-8907.48	-6549.55	26479.85	

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 12

Job #

Program: LEAP® RC-PIER® V8i (SELECTseries 5)

SE Client Licenses

Designed KSM

Version: 12.01.00.57

Copyright © Bentley Systems, Inc. 2012

Date Sep/10/2013

www.bentley.com Phone: 1-800-778-4277

Checked

File Name: Pier12EB_Ped_A2.rcp

Date

Pile	X in	Z in	Batter X degree	Batter Z degree	col#	comb	Ovs	P kips	Mxx kft	Mzz kft	Pile Reac. kips
23	393.00	36.0	0	0	1	398	---	-5629.39	3457.88	3733.79	97.42
					2	398	---	-5629.39	3457.88	3733.79	
					3	398	---	-5629.39	3457.88	3733.79	
					1	182	---	-8907.48	7193.97	28488.65	175.31
					2	182	---	-8907.48	7193.97	28488.65	
					3	182	---	-8907.48	7193.97	28488.65	
					1	404	---	-5629.39	-3108.74	-451.58	96.70
					2	404	---	-5629.39	-3108.74	-451.58	
					3	404	---	-5629.39	-3108.74	-451.58	
24	393.00	108.0	0	0	1	182	---	-8907.48	7193.97	28488.65	192.44
					2	182	---	-8907.48	7193.97	28488.65	
					3	182	---	-8907.48	7193.97	28488.65	
					1	4304	---	-6223.41	-7030.91	-10640.25	83.15
					2	4304	---	-6223.41	-7030.91	-10640.25	
					3	4304	---	-6223.41	-7030.91	-10640.25	
25	467.25	-108.0	0	0	1	87	---	-8907.48	-6549.55	26479.85	185.30
					2	87	---	-8907.48	-6549.55	26479.85	
					3	87	---	-8907.48	-6549.55	26479.85	
					1	3731	---	-6222.50	7378.94	-7558.20	83.95
					2	3731	---	-6222.50	7378.94	-7558.20	
					3	3731	---	-6222.50	7378.94	-7558.20	
26	467.25	-36.0	0	0	1	87	---	-8907.48	-6549.55	26479.85	169.71
					2	87	---	-8907.48	-6549.55	26479.85	
					3	87	---	-8907.48	-6549.55	26479.85	
					1	393	---	-5219.33	-485.10	17894.95	95.70
					2	393	---	-5219.33	-485.10	17894.95	
					3	393	---	-5219.33	-485.10	17894.95	
27	467.25	36.0	0	0	1	182	---	-8907.48	7193.97	28488.65	170.69
					2	182	---	-8907.48	7193.97	28488.65	
					3	182	---	-8907.48	7193.97	28488.65	
					1	393	---	-5219.33	-485.10	17894.95	94.55
					2	393	---	-5219.33	-485.10	17894.95	
					3	393	---	-5219.33	-485.10	17894.95	
28	467.25	108.0	0	0	1	182	---	-8907.48	7193.97	28488.65	187.82
					2	182	---	-8907.48	7193.97	28488.65	
					3	182	---	-8907.48	7193.97	28488.65	
					1	4304	---	-6223.41	-7030.91	-10640.25	84.88
					2	4304	---	-6223.41	-7030.91	-10640.25	
					3	4304	---	-6223.41	-7030.91	-10640.25	
29	541.50	-108.0	0	0	1	62	---	-8907.48	-6711.74	4020.27	182.81
					2	62	---	-8907.48	-6711.74	4020.27	
					3	62	---	-8907.48	-6711.74	4020.27	
					1	3746	---	-6222.50	7378.94	16903.03	83.84
					2	3746	---	-6222.50	7378.94	16903.03	
					3	3746	---	-6222.50	7378.94	16903.03	
30	541.50	-36.0	0	0	1	57	---	-8907.48	-6549.55	-1588.88	166.95
					2	57	---	-8907.48	-6549.55	-1588.88	
					3	57	---	-8907.48	-6549.55	-1588.88	
					1	393	---	-5219.33	-485.10	17894.95	92.80

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 13
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier12EB_Ped_A2.rcp			Date

Pile	X in	Z in	Batter X degree	Batter Z degree	col#	comb	Ovs	P kips	Mxx kft	Mzz kft	Pile Reac. kips
31	541.50	36.0	0	0	2	393	---	-5219.33	-485.10	17894.95	
					3	393	---	-5219.33	-485.10	17894.95	
					1	152	---	-8907.48	7193.97	419.92	167.60
32	541.50	108.0	0	0	2	152	---	-8907.48	7193.97	419.92	
					3	152	---	-8907.48	7193.97	419.92	
					1	393	---	-5219.33	-485.10	17894.95	91.64
33	624.20	-108.0	0	0	2	393	---	-5219.33	-485.10	17894.95	
					3	393	---	-5219.33	-485.10	17894.95	
					1	152	---	-8907.48	7193.97	419.92	184.73
34	624.20	-36.0	0	0	2	152	---	-8907.48	7193.97	419.92	
					3	152	---	-8907.48	7193.97	419.92	
					1	4319	---	-6223.41	-7030.91	13858.49	85.26
35	624.20	36.0	0	0	2	4319	---	-6223.41	-7030.91	13858.49	
					3	4319	---	-6223.41	-7030.91	13858.49	
					1	59	---	-8641.76	-7419.49	-12249.90	183.70
36	624.20	108.0	0	0	2	59	---	-8641.76	-7419.49	-12249.90	
					3	59	---	-8641.76	-7419.49	-12249.90	
					1	3746	---	-6222.50	7378.94	16903.03	80.78
37	706.90	-108.0	0	0	2	3746	---	-6222.50	7378.94	16903.03	
					3	3746	---	-6222.50	7378.94	16903.03	
					1	57	---	-8907.48	-6549.55	-1588.88	167.23
38	706.90	-36.0	0	0	2	57	---	-8907.48	-6549.55	-1588.88	
					3	57	---	-8907.48	-6549.55	-1588.88	
					1	393	---	-5219.33	-485.10	17894.95	89.57
39	706.90	36.0	0	0	2	393	---	-5219.33	-485.10	17894.95	
					3	393	---	-5219.33	-485.10	17894.95	
					1	152	---	-8907.48	7193.97	419.92	167.53
40	706.90	108.0	0	0	2	152	---	-8907.48	7193.97	419.92	
					3	152	---	-8907.48	7193.97	419.92	
					1	393	---	-5219.33	-485.10	17894.95	88.41
41	789.60	-108.0	0	0	2	393	---	-5219.33	-485.10	17894.95	
					3	393	---	-5219.33	-485.10	17894.95	
					1	152	---	-8907.48	7193.97	419.92	184.66
42	789.60	-36.0	0	0	2	152	---	-8907.48	7193.97	419.92	
					3	152	---	-8907.48	7193.97	419.92	
					1	393	---	-5219.33	-485.10	17894.95	82.52
43	789.60	36.0	0	0	2	2704	---	-6106.25	-6104.03	20055.21	
					3	2704	---	-6106.25	-6104.03	20055.21	
					1	59	---	-8641.76	-7419.49	-12249.90	185.91
44	789.60	108.0	0	0	2	59	---	-8641.76	-7419.49	-12249.90	
					3	59	---	-8641.76	-7419.49	-12249.90	
					1	302	---	-6398.24	7976.64	20442.53	77.26
45	872.30	-108.0	0	0	2	302	---	-6398.24	7976.64	20442.53	
					3	302	---	-6398.24	7976.64	20442.53	
					1	59	---	-8641.76	-7419.49	-12249.90	168.25
46	872.30	-36.0	0	0	2	59	---	-8641.76	-7419.49	-12249.90	
					3	59	---	-8641.76	-7419.49	-12249.90	
					1	393	---	-5219.33	-485.10	17894.95	86.33
					2	393	---	-5219.33	-485.10	17894.95	
					3	393	---	-5219.33	-485.10	17894.95	
					1	393	---	-5219.33	-485.10	17894.95	

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 14
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier12EB_Ped_A2.rcp			Date

Pile	X in	Z in	Batter X degree	Batter Z degree	col#	comb	Ovs	P kips	Mxx kft	Mzz kft	Pile Reac. kips
39	706.90	36.0	0	0	3	393	---	-5219.33	-485.10	17894.95	
					1	152	---	-8907.48	7193.97	419.92	167.45
					2	152	---	-8907.48	7193.97	419.92	
40	706.90	108.0	0	0	3	152	---	-8907.48	7193.97	419.92	
					1	393	---	-5219.33	-485.10	17894.95	85.18
					2	393	---	-5219.33	-485.10	17894.95	
41	789.60	-108.0	0	0	3	393	---	-5219.33	-485.10	17894.95	
					1	97	---	-8587.45	8044.53	-10628.28	186.50
					2	97	---	-8587.45	8044.53	-10628.28	
42	789.60	-36.0	0	0	3	97	---	-8587.45	8044.53	-10628.28	
					1	2704	---	-6106.25	-6104.03	20055.21	78.89
					2	2704	---	-6106.25	-6104.03	20055.21	
43	789.60	36.0	0	0	3	2704	---	-6106.25	-6104.03	20055.21	
					1	59	---	-8641.76	-7419.49	-12249.90	188.13
					2	59	---	-8641.76	-7419.49	-12249.90	
44	789.60	-108.0	0	0	3	59	---	-8641.76	-7419.49	-12249.90	
					1	302	---	-6398.24	7976.64	20442.53	73.56
					2	302	---	-6398.24	7976.64	20442.53	
45	872.30	-108.0	0	0	3	302	---	-6398.24	7976.64	20442.53	
					1	34	---	-8530.53	-4304.52	-22272.84	170.75
					2	34	---	-8530.53	-4304.52	-22272.84	
46	872.30	-36.0	0	0	3	34	---	-8530.53	-4304.52	-22272.84	
					1	393	---	-5219.33	-485.10	17894.95	83.10
					2	393	---	-5219.33	-485.10	17894.95	
47	872.30	36.0	0	0	3	393	---	-5219.33	-485.10	17894.95	
					1	96	---	-8530.56	4787.67	-20960.34	170.54
					2	96	---	-8530.56	4787.67	-20960.34	
48	872.30	108.0	0	0	3	96	---	-8530.56	4787.67	-20960.34	
					1	393	---	-5219.33	-485.10	17894.95	81.94
					2	393	---	-5219.33	-485.10	17894.95	
49	872.30	-108.0	0	0	3	393	---	-5219.33	-485.10	17894.95	
					1	97	---	-8587.45	8044.53	-10628.28	188.42
					2	97	---	-8587.45	8044.53	-10628.28	
50	872.30	-36.0	0	0	3	97	---	-8587.45	8044.53	-10628.28	
					1	2704	---	-6106.25	-6104.03	20055.21	75.27
					2	2704	---	-6106.25	-6104.03	20055.21	
51	872.30	108.0	0	0	3	2704	---	-6106.25	-6104.03	20055.21	
					1	59	---	-8641.76	-7419.49	-12249.90	190.34
					2	59	---	-8641.76	-7419.49	-12249.90	
52	872.30	-108.0	0	0	3	59	---	-8641.76	-7419.49	-12249.90	
					1	302	---	-6398.24	7976.64	20442.53	69.87
					2	302	---	-6398.24	7976.64	20442.53	
53	872.30	-36.0	0	0	3	302	---	-6398.24	7976.64	20442.53	
					1	34	---	-8530.53	-4304.52	-22272.84	174.78
					2	34	---	-8530.53	-4304.52	-22272.84	
54	872.30	36.0	0	0	3	34	---	-8530.53	-4304.52	-22272.84	
					1	393	---	-5219.33	-485.10	17894.95	79.86
					2	393	---	-5219.33	-485.10	17894.95	
55	872.30	108.0	0	0	3	393	---	-5219.33	-485.10	17894.95	
					1	393	---	-5219.33	-485.10	17894.95	
					2	393	---	-5219.33	-485.10	17894.95	

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 15
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier12EB_Ped_A2.rcp			Date

Pile	X in	Z in	Batter X degree	Batter Z degree	col#	comb	Ovs	P kips	Mxx kft	Mzz kft	Pile Reac. kips
	872.30	36.0	0	0	1	96	---	-8530.56	4787.67	-20960.34	174.33
					2	96	---	-8530.56	4787.67	-20960.34	
					3	96	---	-8530.56	4787.67	-20960.34	
					1	393	---	-5219.33	-485.10	17894.95	78.71
					2	393	---	-5219.33	-485.10	17894.95	
					3	393	---	-5219.33	-485.10	17894.95	
48	872.30	108.0	0	0	1	97	---	-8587.45	8044.53	-10628.28	190.34
					2	97	---	-8587.45	8044.53	-10628.28	
					3	97	---	-8587.45	8044.53	-10628.28	
					1	2704	---	-6106.25	-6104.03	20055.21	71.64
					2	2704	---	-6106.25	-6104.03	20055.21	
					3	2704	---	-6106.25	-6104.03	20055.21	
49	955.00	-108.0	0	0	1	59	---	-8641.76	-7419.49	-12249.90	192.56
					2	59	---	-8641.76	-7419.49	-12249.90	
					3	59	---	-8641.76	-7419.49	-12249.90	
					1	302	---	-6398.24	7976.64	20442.53	66.17
					2	302	---	-6398.24	7976.64	20442.53	
					3	302	---	-6398.24	7976.64	20442.53	
50	955.00	-36.0	0	0	1	34	---	-8530.53	-4304.52	-22272.84	178.80
					2	34	---	-8530.53	-4304.52	-22272.84	
					3	34	---	-8530.53	-4304.52	-22272.84	
					1	3270	---	-6061.46	3422.12	28796.08	76.56
					2	3270	---	-6061.46	3422.12	28796.08	
					3	3270	---	-6061.46	3422.12	28796.08	
51	955.00	36.0	0	0	1	96	---	-8530.56	4787.67	-20960.34	178.12
					2	96	---	-8530.56	4787.67	-20960.34	
					3	96	---	-8530.56	4787.67	-20960.34	
					1	393	---	-5219.33	-485.10	17894.95	75.47
					2	393	---	-5219.33	-485.10	17894.95	
					3	393	---	-5219.33	-485.10	17894.95	
52	955.00	108.0	0	0	1	97	---	-8587.45	8044.53	-10628.28	192.27
					2	97	---	-8587.45	8044.53	-10628.28	
					3	97	---	-8587.45	8044.53	-10628.28	
					1	2704	---	-6106.25	-6104.03	20055.21	68.02
					2	2704	---	-6106.25	-6104.03	20055.21	
					3	2704	---	-6106.25	-6104.03	20055.21	
53	1027.00	-108.0	0	0	1	5	---	-8588.63	-7561.05	-12658.41	194.50
					2	5	---	-8588.63	-7561.05	-12658.41	
					3	5	---	-8588.63	-7561.05	-12658.41	
					1	302	---	-6398.24	7976.64	20442.53	62.95
					2	302	---	-6398.24	7976.64	20442.53	
					3	302	---	-6398.24	7976.64	20442.53	
54	1027.00	-36.0	0	0	1	34	---	-8530.53	-4304.52	-22272.84	182.31
					2	34	---	-8530.53	-4304.52	-22272.84	
					3	34	---	-8530.53	-4304.52	-22272.84	
					1	3270	---	-6061.46	3422.12	28796.08	72.03
					2	3270	---	-6061.46	3422.12	28796.08	
					3	3270	---	-6061.46	3422.12	28796.08	
55	1027.00	36.0	0	0	1	96	---	-8530.56	4787.67	-20960.34	181.42

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 16
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier12EB_Ped_A2.rcp			Date

Pile	X in	Z in	Batter X degree	Batter Z degree	col#	comb	Ovs	P kips	Mxx kft	Mzz kft	Pile Reac. kips
					2	96	---	-8530.56	4787.67	-20960.34	
					3	96	---	-8530.56	4787.67	-20960.34	
					1	393	---	-5219.33	-485.10	17894.95	72.66
					2	393	---	-5219.33	-485.10	17894.95	
					3	393	---	-5219.33	-485.10	17894.95	
56	1027.00	108.0	0	0	1	97	---	-8587.45	8044.53	-10628.28	193.94
					2	97	---	-8587.45	8044.53	-10628.28	
					3	97	---	-8587.45	8044.53	-10628.28	
					1	2700	---	-6061.46	-3510.05	27782.86	64.70
					2	2700	---	-6061.46	-3510.05	27782.86	
					3	2700	---	-6061.46	-3510.05	27782.86	

Pile Reactions: Notes

* Service Force in pile is greater than service pile capacity.
Load effects on pile are calculated at centroid of the bottom of the footing.
Both the max. and min. pile reaction are reported for each individual pile.
Positive pile reaction represents pile subject to compression load; negative pile reaction represents pile subject to uplift.
Coordinate system of pile layout see Geometry Tab>Footing Pile>Edit Pile.

Pile Lateral Resistance Check X

Controlling load combination number	381
Lateral loads on all piles(kips)	-119.177
Batter angle(deg)	0.000
Available lateral resistance due to batter(kips)	0.000
Direct shear resistance of all piles(kips)	2800.000
Total pile lateral resistance(kips)	2800.000
Is the lateral resistance due to batter greater than lateral load on all piles?	NO
Is the total pile lateral resistance greater than the lateral load on all piles?	YES

Pile Lateral Resistance Check Z

Controlling load combination number	100
Lateral loads on all piles(kips)	119.121
Batter angle(deg)	0.000
Available lateral resistance due to batter(kips)	0.000
Direct shear resistance of all piles(kips)	2800.000
Total pile lateral resistance(kips)	2800.000
Is the lateral resistance due to batter greater than lateral load on all piles?	NO

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 17
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp		Date	

Is the total pile lateral resistance greater than the lateral load on all piles? YES

Max. Pile Reaction Used in Design: (without selfweight and surcharge)

Factored pile reaction	178.41 kips	Comb 182
Service pile reaction	138.58 kips	Comb 7426

Flexure

	Loc ft	Mmax Mmin kft	Comb	Asb_req in^2	Asb_prv in^2	Asb_eff in^2	Ast_req in^2	Ast_prv in^2	Ast_eff in^2
X direction	-8.00	-0.0	182	14.26	0.00 *	0.00 *	14.26	84.24 *	0.00 *
		-0.0	182	14.26	0.00 *	0.00 *	14.26	84.24 *	0.00 *
	-7.43	-0.0	182	14.26	0.00 *	0.00 *	14.26	84.24	22.69
		-0.0	182	14.26	0.00 *	0.00 *	14.26	84.24	25.21
	-6.86	-0.0	182	14.26	0.00 *	0.00 *	14.26	84.24	45.39
		-0.0	182	14.26	0.00 *	0.00 *	14.26	84.24	50.42
	-6.29	-0.0	182	14.26	0.00 *	0.00 *	14.26	84.24	68.08
		-0.0	182	14.26	0.00 *	0.00 *	14.26	84.24	75.63
	-5.72	199.1	182	14.26	0.00 *	0.00 *	14.26	84.24	84.24
		-0.0	182	14.26	0.00 *	0.00 *	14.26	84.24	84.24
	-5.15	605.7	182	14.26	0.00 *	0.00 *	14.26	84.24	84.24
		-0.0	182	14.26	0.00 *	0.00 *	14.26	84.24	84.24
	-4.58	1012.3	182	14.26	0.00 *	0.00 *	14.26	84.24	84.24
		-0.0	182	14.26	0.00 *	0.00 *	14.26	84.24	84.24
	-4.01	1418.9	182	14.26	0.00 *	0.00 *	14.26	84.24	84.24
		-0.0	182	14.26	0.00 *	0.00 *	14.26	84.24	84.24
	-3.44	1825.4	182	14.26	0.00 *	0.00 *	14.26	84.24	84.24
		-0.0	182	14.26	0.00 *	0.00 *	14.26	84.24	84.24
	-2.87	2232.0	182	14.26	0.00 *	0.00 *	14.26	84.24	84.24
		-0.0	182	14.26	0.00 *	0.00 *	14.26	84.24	84.24
	0.00	-0.0	182	14.26	0.00 *	0.00 *	14.26	84.24	84.24
		-0.0	182	14.26	0.00 *	0.00 *	14.26	84.24	84.24
	2.87	-0.0	182	14.26	0.00 *	0.00 *	14.26	84.24	84.24
		-24.5	182	14.26	0.00 *	0.00 *	14.26	84.24	84.24
8.62	-0.0	182	14.26	0.00 *	0.00 *	14.26	84.24	84.24	
	-6907.7	182	14.26	0.00 *	0.00 *	34.51	84.24	84.24	
10.71	-0.0	182	14.26	0.00 *	0.00 *	14.26	84.24	84.24	
	-8545.5	182	14.26	0.00 *	0.00 *	42.84	84.24	84.24	
14.62	-0.0	182	14.26	0.00 *	0.00 *	14.26	84.24	84.24	
	-10017.9	182	14.26	0.00 *	0.00 *	47.92	84.24	84.24	
18.54	-0.0	182	14.26	0.00 *	0.00 *	14.26	84.24	84.24	
	-10300.0	182	14.26	0.00 *	0.00 *	47.92	84.24	84.24	
22.46	-0.0	182	14.26	0.00 *	0.00 *	14.26	84.24	84.24	

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 18
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier12EB_Ped_A2.rcp		Date	

	Loc ft	Mmax Mmin kft	Comb	Asb_req in^2	Asb_prv in^2	Asb_eff in^2	Ast_req in^2	Ast_prv in^2	Ast_eff in^2
		-7801.4	182	14.26	0.00 *	0.00 *	39.05	84.24	84.24
26.38	-0.0	182	14.26	0.00 *	0.00 *	14.26	84.24	84.24	
	-4127.3	182	14.26	0.00 *	0.00 *	20.50	84.24	84.24	
28.46	-0.0	182	14.26	0.00 *	0.00 *	14.26	84.24	84.24	
	-1302.0	182	14.26	0.00 *	0.00 *	14.26	84.24	84.24	
34.21	8826.8	182	38.33	0.00 *	0.00 *	14.26	84.24	84.24	
	-0.0	182	14.26	0.00 *	0.00 *	14.26	84.24	84.24	
37.08	-0.0	182	14.26	0.00 *	0.00 *	14.26	84.24	84.24	
	-0.0	182	14.26	0.00 *	0.00 *	14.26	84.24	84.24	
39.96	9845.9	182	41.47	0.00 *	0.00 *	14.26	84.24	84.24	
	-0.0	182	14.26	0.00 *	0.00 *	14.26	84.24	84.24	
43.51	3792.8	182	16.34	0.00 *	0.00 *	14.26	84.24	84.24	
	-0.0	182	14.26	0.00 *	0.00 *	14.26	84.24	84.24	
45.71	1254.6	182	14.26	0.00 *	0.00 *	14.26	84.24	84.24	
	-0.0	182	14.26	0.00 *	0.00 *	14.26	84.24	84.24	
50.61	-0.0	182	14.26	0.00 *	0.00 *	14.26	84.24	84.24	
	-3605.2	182	14.26	0.00 *	0.00 *	17.89	84.24	84.24	
54.17	-0.0	182	14.26	0.00 *	0.00 *	14.26	84.24	84.24	
	-4797.7	182	14.26	0.00 *	0.00 *	23.86	84.24	84.24	
57.72	-0.0	182	14.26	0.00 *	0.00 *	14.26	84.24	84.24	
	-5780.0	182	14.26	0.00 *	0.00 *	28.81	84.24	84.24	
62.63	-0.0	182	14.26	0.00 *	0.00 *	14.26	84.24	84.24	
	-3691.8	182	14.26	0.00 *	0.00 *	18.32	84.24	84.24	
64.82	-0.0	182	14.26	0.00 *	0.00 *	14.26	84.24	84.24	
	-2636.2	182	14.26	0.00 *	0.00 *	14.26	84.24	84.24	
68.38	1452.2	182	14.26	0.00 *	0.00 *	14.26	84.24	84.24	
	-0.0	182	14.26	0.00 *	0.00 *	14.26	84.24	84.24	
71.25	-0.0	182	14.26	0.00 *	0.00 *	14.26	84.24	84.24	
	-0.0	182	14.26	0.00 *	0.00 *	14.26	84.24	84.24	
74.12	2469.9	182	14.26	0.00 *	0.00 *	14.26	84.24	84.24	
	-0.0	182	14.26	0.00 *	0.00 *	14.26	84.24	84.24	
74.72	2043.5	182	14.26	0.00 *	0.00 *	14.26	84.24	84.24	
	-0.0	182	14.26	0.00 *	0.00 *	14.26	84.24	84.24	
75.32	1617.1	182	14.26	0.00 *	0.00 *	14.26	84.24	84.24	
	-0.0	182	14.26	0.00 *	0.00 *	14.26	84.24	84.24	
75.91	1190.7	182	14.26	0.00 *	0.00 *	14.26	84.24	84.24	
	-0.0	182	14.26	0.00 *	0.00 *	14.26	84.24	84.24	
76.51	764.3	182	14.26	0.00 *	0.00 *	14.26	84.24	84.24	
	-0.0	182	14.26	0.00 *	0.00 *	14.26	84.24	84.24	
77.11	337.9	182	14.26	0.00 *	0.00 *	14.26	84.24	84.24	
	-0.0	182	14.26	0.00 *	0.00 *	14.26	84.24	84.24	
77.71	-0.0	182	14.26	0.00 *	0.00 *	14.26	84.24	71.40	
	-0.0	182	14.26	0.00 *	0.00 *	14.26	84.24	79.31	
78.30	-0.0	182	14.26	0.00 *	0.00 *	14.26	84.24	47.60	
	-0.0	182	14.26	0.00 *	0.00 *	14.26	84.24	52.88	
78.90	-0.0	182	14.26	0.00 *	0.00 *	14.26	84.24	23.80	
	-0.0	182	14.26	0.00 *	0.00 *	14.26	84.24	26.44	
79.50	-0.0	182	14.26	0.00 *	0.00 *	14.26	84.24 *	0.00 *	

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 19
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp			Date

	Loc ft	Mmax Mmin kft	Comb	Asb_req in^2	Asb_prv in^2	Asb_eff in^2	Ast_req in^2	Ast_prv in^2	Ast_eff in^2
Z direction		-0.0	182	14.26	0.00 *	0.00 *	14.26	84.24 *	0.00 *
	-1.91	20407.0	182	105.98	0.00 *	0.00 *	56.70	410.28	410.28
	1.91	20407.0	182	105.98	0.00 *	0.00 *	56.70	410.28	410.28

Flexure Note

* The provided reinforcement is not adequate, either less than required or larger than maximum allowed.

One Way Shear (Beta-Theta Method)

	Col	Dist ft	Comb	dv in	Vu kips	Mu kft	theta deg	beta	phi*Vc kips
X direction	1	5.00	Outside of Footing	---	---	---	---	---	---
	1	8.62	182	60.00	785.6	-6907.7	31.25	3.24	3423.4
	2	28.46	182	60.00	1355.3	-1302.0	32.88	2.62	2769.9
	2	45.71	182	69.00	990.1	1254.6	36.00	1.92	2334.4
	3	62.63	182	60.00	437.1	-3691.8	30.25	3.78	4000.9
	3	68.63	Outside of Footing	---	---	---	---	---	---
Z direction		-7.66	182	69.00	2497.7	3334.8	36.00	1.92	9284.6
		7.66	182	69.00	2497.7	3334.8	36.00	1.92	9284.6

Two Way Shear

#	Bo ft	Ao ft^2	Comb	Avg. dv in	Vu kips	phi*Vc kips
Columns						
1	40.65	102.35	182	64.50	2569.7	8367.2
2	40.65	102.35	182	66.75	4129.5	8367.2
3	40.65	102.35	182	64.50	2221.2	8367.2
Piles - max						
6	29.50	54.39	182	65.25	178.4	6072.4
Piles - min						
53	11.29	31.87	182	65.25	178.4	2324.3

Two Way Shear Note

TWO WAY SHEAR IN FOOTING IS NOT DESIGNED AND STIRRUPS ARE NOT CONSIDERED.



Sheet # 20
Job #

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	KSM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	Sep/10/2013
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier12EB_Ped_A2.rcp			Date

ALTERNATIVE 3

For I-4 Ultimate PD&E Study				Job No.	
				Sheet No.	1 of 3
Made by	CAM	Checked by		Backchecked by	
Date	7/31/14	Date		Date	



Large Span Pedestrian Bridges

Project Stats

- Approximate Span Required = 800 ft.

Project Guidelines

- AASHTO Guide for the Development of Bicycle Facilities
- AASHTO Guide for the Planning, Design, and Operation of Pedestrian Facilities
- FDOT Pedestrian Facilities
- AAHSTO LRFD Bridge Design Specifications
- AASHTO LRFD Guide Specifications for Design of Pedestrian Bridges
- FDOT Structures Design Guidelines

Bridge Types

- Cable Stayed Bridge – Two stay towers at each embankment
- Through Arch – spans up to 300'
- Suspension –
- Network Tied Arch Bridge -

Historical Precedence

Bridge	State	Type	Main Span	Overall Length	Deck Area	Bid Price	Unit Price/SF	Deck Width
Springwater Trail Pedestrian Bridge	OR	Prefab Truss	175	175	2100	\$607,000	\$289	12
I-5 Beltline Pedestrian Bridge	OR	Cable-Stayed	203	503	7042	\$2,035,000	\$289	14
Springwater Trail (McLoughlin Blvd.) Pedestrian Bridge	OR	Through-Arch	241	302	3624	\$1,350,000	\$373	12
McKenzie River Bridge	OR	Suspension	430	670	12395	\$2,500,000	\$202	18.5
DeFazio Pedestrian Bridge	OR	Suspension	338	606	8484	\$2,645,000	\$312	14
Bob Kerry Pedestrian Bridge	NE	Cable-Stayed	506	3000	45000	\$22,000,000	\$489	15
Liberty Bridge in Falls Park	SC	Suspension	345	345	4140	\$4,500,000	\$1,087	12
Cross Seminole Trail Bridge	FL	Prefab Truss	374	419	5866		\$0	14
St Johns River Trail Bridge	FL	Cable-Stayed	700	1200	18000	\$6,840,000	\$380	15

For I-4 Ultimate PD&E Study				Job No.	
				Sheet No.	2 of 3
Made by	CAM	Checked by		Backchecked by	
Date	7/31/14	Date		Date	



Estimated Project Costs

- \$380/SF estimated for specialty bridges
- For 1,200-ft. bridge, with 15-ft wide walkway, Total Cost = \$6,840,000

Bridge Type Selection

- FDOT Category 2 Structures (PPM Chap 26.3) (State Design Office responsible for oversight)
- Bridge Analysis to be performed during PD&E phase
- Determine general attributes for recommended bridge
- General site geotechnical knowledge is required (existing bridge plans, pile records, new borings etc.)
- Analysis Contents:
 - Environmental and Site Considerations
 - Vertical and Horizontal clearances
 - Vertical and Horizontal Geometry
 - Typical Section
 - Ship Impact Data
 - Historical Significance
 - Aesthetic Level
 - ~~Hydraulics~~
 - Bridge Deck Drainage
 - ~~Stream Bottom Profile~~
 - Conceptual Geotech Information
 - Construction Cost and Schedule
- 75 Year Design Life
- Deflection Limits: Pedestrian = L/500, Truck = L/500, Cantilever Arms = L/300, Horizontal From Lateral Wind = L/500
- Loads
 - See Guide Spec.
 - Wind = 50 psf (Increase by 20% for Cable- stayed)
 - See AASHTO Sign code for wind and fatigue loads
 - Vehicle Speed = 30 mph
 - PL = 90 psf (dynamic allowance not required)
 - Maintenance vehicle load (H10) and not combined with PL
 - Investigate vibrations as a Service limit state
- Cable-Stay Bridges
 - Design for stay replacement
 - Design for stay durability and protection
-

For			I-4 Ultimate PD&E Study		Job No.	
					Sheet No.	3 of 3
Made by	CAM	Checked by		Backchecked by		
Date	7/31/14	Date		Date		



Structural Analysis Methods and Assumptions

Alternatives 1 and 4

- Roadway Spans Modeled in Conspan as Existing + Widening.
 - EB and WB Spans Modeled Separately
- DC Reactions from Conspan were imported into RC-Pier
- LL,BR,WS, and WL reactions were auto-generated in RC-Pier
 - EB and WB sides were generated in separate load cases for enveloping
- RC-Pier Models existing + widening substructure, EB and WB in single model
- Existing Columns, Cap, Footing modeled with As-Built materials and sections (including rebar)
- Pedestrian Span reactions for Alternative 1 Manually computed.
- For Alternative 4, the entire deck width is made available to truck traffic and pedestrian loads are neglected.

Alternative 2

- Frame analysis carried out in CSIBridge.
- Frame sections checked for bending and axial (Compression and Tension) capacity.
- Reactions applied to RC-Pier Model to check pile reactions and existing column capacity

ALTERNATIVE 4



610 Crescent Exec.Ct.Ste 400
Lake Mary, FL 32746
Phone:407-805-0355

Made_By := "KSM Date: 08/29/13"

Checked_By := "CAM Date: 09/04/13"

B'checked_By := "KSM Date: 09/09/13"

Project_No := 59219

Sheet Number: _____

Calculation_For := "I4 Over St Johns River"

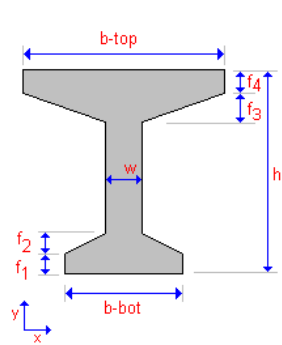
Misc. Calculations for CONSPAN Input: Span 11 - Original Spacing with Extra Beam

Concrete Modulus of Elasticity FIB-78

$f'_c := 7.5 \text{ ksi}$	$f'_c = 7.5 \text{ ksi}$	...Class VI (Special) Concrete (Final)
$f'_{ci} := \min(0.8 \cdot f'_c, 6.0 \text{ ksi})$	$f'_{ci} = 6 \text{ ksi}$	...Class VI (Special) Concrete (Release) <i>[LRFD 5.4.2.3, SDG 4.3.1.C.4]</i>
$f'_{c_deck} := 5.5 \text{ ksi}$	$f'_{c_deck} = 5.5 \text{ ksi}$	...Class IV Bridge Deck
$\gamma_c := 0.150 \text{ kcf}$	$\gamma_c = 0.15 \text{ kcf}$	...unit weight of concrete used for load calculation
$E_c := 0.9 \cdot 33000 \cdot 0.145^{1.5} \cdot \sqrt{f'_c} \text{ ksi}$	$E_c = 4491 \text{ ksi}$	...Class VI (Special) Concrete (Final)
$E_{ci} := 0.9 \cdot 33000 \cdot 0.145^{1.5} \cdot \sqrt{f'_{ci}} \text{ ksi}$	$E_{ci} = 4016.8 \text{ ksi}$	...Class VI (Special) Concrete (Release)
$E_{c_deck} := 0.9 \cdot 33000 \cdot 0.145^{1.5} \cdot \sqrt{f'_{c_deck}} \text{ ksi}$	$E_{c_deck} = 3845.8 \text{ ksi}$	...Class IV Bridge Deck
$n := \frac{E_c}{E_{c_deck}}$	$n = 1.168$	...modular ratio

Section Geometry

$t_{slab} := 8.5 \text{ in}$		
$t_{sacr} := 0.5 \text{ in}$		
$h := 6 \text{ ft} + 6 \text{ in}$	$h = 78 \text{ in}$	
$w := 7 \text{ in}$	$w = 7 \text{ in}$	
$b_t := 4 \text{ ft} + 0 \text{ in}$	$b_t = 48 \text{ in}$	
$b_b := 3 \text{ ft} + 2 \text{ in}$	$b_b = 38 \text{ in}$	
$f_4 := 3.5 \text{ in}$	$f_4 = 3.5 \text{ in}$	...Ignore additional chamfer at top flange
$f_3 := 1.5 \text{ in}$	$f_3 = 1.5 \text{ in}$	...Ignore fillet at bottom flange
$f_2 := 7.5 \text{ in}$	$f_2 = 7.5 \text{ in}$	
$f_1 := 7 \text{ in}$	$f_1 = 7 \text{ in}$	



Made_By = "KSM Date: 08/29/13"

Checked_By = "CAM Date: 09/04/13"

B'checked_By = "KSM Date: 09/09/13"

Span Geometry (Typical)

$N_{BeamsE} := 7$		...Number of beams (Existing)
$N_{BeamsW} := 5$		...Number of beams (Widening)
$overhang_left := 4.75 \text{ ft}$		
$overhang_right := 4.75 \text{ ft}$		
$Width_Barrier_left := 1 \text{ ft} + 6 \frac{1}{2} \text{ in}$		
$Width_Barrier_right := 1 \text{ ft} + 6 \frac{1}{2} \text{ in}$		
$S_e := 9 \text{ ft} + 3 \text{ in}$	$S_e = 9.25 \text{ ft}$	...Beam Spacing (Existing)
$S_w := 11 \text{ ft} + 4.6 \text{ in}$	$S_w = 11.383 \text{ ft}$	...Beam Spacing (Widening)
$S_a := 7 \text{ ft} + 3.5 \text{ in}$	$S_a = 7.292 \text{ ft}$	...Beam Spacing (Adj. to Existing Exterior)

$$Width_{total} := (N_{BeamsE} - 3) \cdot S_e + (N_{BeamsW}) \cdot S_w + 2S_a + overhang_left + overhang_right$$

$$Width_{total} = 118 \text{ ft} \quad \dots \text{Edge to edge width of deck}$$

$$Offset := 30 \text{ ft} + 5.5 \text{ in} \quad \dots \text{Offset from CL I4 to original edge of ultimate section}$$

$$Skew := \left[90 - \left(75 + \frac{50}{60} + \frac{47}{60-60} \right) \right] \cdot \text{deg} \quad Skew = 14.154 \text{ deg} \quad \dots \text{Skew Angle}$$

$$L := 121 \text{ ft} + 2 \text{ in} \quad L = 121.167 \text{ ft} \quad \dots \text{Span CL Pier - CL Pier (along CL I4)}$$

$$L_{s1} := L + \left(\text{Offset} + \frac{Width_{total}}{2} \right) \tan(Skew) \quad L_{s1} = 143.726 \text{ ft} \quad \dots \text{Span CL Pier - CL Pier (along CL bridge)}$$

$$beg_cl_brg := 1 \text{ ft} + 2.5 \text{ in} \quad beg_cl_brg = 14.5 \text{ in} \quad \dots \text{Beam cl bearing Length Span}$$

$$end_cl_brg := 1 \text{ ft} + 2.5 \text{ in} \quad end_cl_brg = 14.5 \text{ in} \quad \dots \text{Beam cl bearing Length Span}$$

$$L_{design_1} := L_{s1} - \frac{beg_cl_brg}{1} - \frac{end_cl_brg}{\cos(Skew)} \quad L_{design_1} = 141.2716 \text{ ft} \quad \dots \text{Beam design Span Length}$$

$$J := 10 \text{ in} \quad J = 0.833 \text{ ft} \quad \dots \text{Beam overhang past CL bearing}$$

$$L_b := L_{design_1} + J + \frac{J}{\cos(Skew)} \quad L_b = 142.964 \text{ ft} \quad \dots \text{Beam length Span 1}$$

$$d_{e_left} := overhang_left - Width_Barrier_left \quad d_{e_left} = 3.208 \text{ ft}$$

$$d_{e_right} := overhang_right - Width_Barrier_right \quad d_{e_right} = 3.208 \text{ ft}$$

Dead Load Calculation - Area Loads**Build-up on beam**

Assume 3" build-up (CONSPAN will include 1" of build-up)

$$h_{bu} := 2\text{in}$$

$$h_{bu} = 0.167\text{ft}$$

...Build-up height

$$A_{bu} := h_{bu} \cdot b_t$$

$$A_{bu} = 0.667\text{ft}^2$$

...Cross-sectional area of build-up

$$w_{bu} := A_{bu} \cdot \gamma_c$$

$$w_{bu} = 0.1\text{k/ft}$$

...Build-up line load

SIP Forms**Load on existing exterior**

$$p_{sip} := 0.02\text{ksf}$$

$$w_{sip_e_ex} := \frac{S_e - b_t}{2} \cdot p_{sip}$$

$$w_{sip_e_ex} = 0.053\text{k/ft}$$

Load on existing interior (adjacent to exterior)

$$w_{sip_w_in2} := (S_a - b_t) \cdot p_{sip}$$

$$w_{sip_w_in2} = 0.066\text{k/ft}$$

Load on existing interior (adjacent to first interior beam)

$$w_{sip_w_ex} := \left(\frac{S_e}{2} + \frac{S_a}{2} - b_t \right) \cdot p_{sip}$$

$$w_{sip_w_ex} = 0.085\text{k/ft}$$

Load on existing interior

$$w_{sip_e_in} := (S_e - b_t) \cdot p_{sip}$$

$$w_{sip_e_in} = 0.105\text{k/ft}$$

Load on existing interior (adjacent to widening interior)

$$w_{sip_e_in2} := \left(\frac{S_e}{2} + \frac{S_w}{2} - b_t \right) \cdot p_{sip}$$

$$w_{sip_e_in2} = 0.126\text{k/ft}$$

Load on widening interior

$$w_{sip_w_in} := (S_w - b_t) \cdot p_{sip}$$

$$w_{sip_w_in} = 0.148\text{k/ft}$$

Load on widening exterior

$$w_{sip_w_in} := \left(\frac{S_w - b_t}{2} \right) \cdot p_{sip}$$

$$w_{sip_w_in} = 0.074\text{k/ft}$$

Light pole pedestal weight (FDOT index 21200)

No roadway lighting along SR 400 (I-4) Over St. John's River Bridge.

$$w_{lpp} := 0 \frac{\text{kip}}{\text{ft}}$$

$$w_{lpp} = 0 \frac{\text{kip}}{\text{ft}}$$

Thickened end slab

No thickened end slabs on SR 400 (I-4) Over St. John's River Bridge.

Sacrificial Deck

Load due to sacrificial deck thickness is computed within CONSPAN analysis

Dead Load Calculation - Diaphragm Loads**Intermediate Diaphragms**

No intermediate diaphragms on SR 400 (I-4) Over St. John's River Bridge.

End Diaphragms

End diaphragm loads are computed within CONSPAN analysis

Dead Load Calculation - Drainage Conduit

Assume load due to drainage conduit is negligible.



610 Crescent Exec.Ct.Ste 400
Lake Mary, FL 32746
Phone:407-805-0355

Made_By := "KSM Date: 08/29/13"

Project_No := 59219

Checked_By := "CAM Date: 09/04/13"

Sheet Number: _____

Calculation_For := "I4 Over St Johns River"

B'checked_By := "KSM Date: 09/09/13"

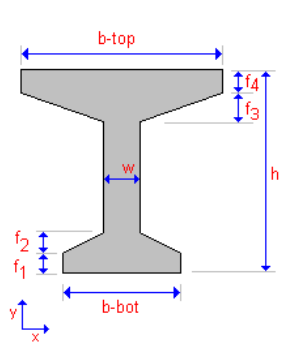
Misc. Calculations for CONSPAN Input: Span 12 - Original Spacing with Extra Beam

Concrete Modulus of Elasticity FIB-78

$f'_c := 7.5 \text{ ksi}$	$f'_c = 7.5 \text{ ksi}$	...Class VI (Special) Concrete (Final)
$f'_{ci} := \min(0.8 \cdot f'_c, 6.0 \text{ ksi})$	$f'_{ci} = 6 \text{ ksi}$	...Class VI (Special) Concrete (Release) [LRFD 5.4.2.3, SDG 4.3.1.C.4]
$f'_{c_deck} := 5.5 \text{ ksi}$	$f'_{c_deck} = 5.5 \text{ ksi}$	...Class IV Bridge Deck
$\gamma_c := 0.150 \cdot \text{kcf}$	$\gamma_c = 0.15 \cdot \text{kcf}$	...unit weight of concrete used for load calculation
$E_c := 0.9 \cdot 33000 \cdot 0.145^{1.5} \cdot \sqrt{f'_c} \cdot \text{ksi}$	$E_c = 4491 \cdot \text{ksi}$	...Class VI (Special) Concrete (Final)
$E_{ci} := 0.9 \cdot 33000 \cdot 0.145^{1.5} \cdot \sqrt{f'_{ci}} \cdot \text{ksi}$	$E_{ci} = 4016.8 \cdot \text{ksi}$	...Class VI (Special) Concrete (Release)
$E_{c_deck} := 0.9 \cdot 33000 \cdot 0.145^{1.5} \cdot \sqrt{f'_{c_deck}} \cdot \text{ksi}$	$E_{c_deck} = 3845.8 \cdot \text{ksi}$	...Class IV Bridge Deck
$n := \frac{E_c}{E_{c_deck}}$	$n = 1.168$	...modular ratio

Section Geometry

$t_{slab} := 8.5 \text{ in}$	
$t_{sacr} := 0.5 \text{ in}$	
$h := 6 \text{ ft} + 6 \text{ in}$	$h = 78 \text{ in}$
$w := 7 \text{ in}$	$w = 7 \text{ in}$
$b_t := 4 \text{ ft} + 0 \text{ in}$	$b_t = 48 \text{ in}$
$b_b := 3 \text{ ft} + 2 \text{ in}$	$b_b = 38 \text{ in}$
$f_4 := 3.5 \text{ in}$	$f_4 = 3.5 \text{ in}$
$f_3 := 1.5 \text{ in}$	$f_3 = 1.5 \text{ in}$
$f_2 := 7.5 \text{ in}$	$f_2 = 7.5 \text{ in}$
$f_1 := 7 \text{ in}$	$f_1 = 7 \text{ in}$



...Ignore additional chamfer at top flange

...Ignore fillet at bottom flange

Made_By := "KSM Date: 08/29/13"

Checked_By := "CAM Date: 09/04/13"

B'checked_By := "KSM Date: 09/09/13"

Span Geometry (Typical)

$N_{BeamsE} := 6$	...Number of beams (Existing)
$N_{BeamsW} := 5$	...Number of beams (Widening)
$overhang_left := 4.75 \text{ ft}$	
$overhang_right := 4.75 \text{ ft}$	
$Width_Barrier_left := 1 \text{ ft} + 6 \frac{1}{2} \text{ in}$	
$Width_Barrier_right := 1 \text{ ft} + 6 \frac{1}{2} \text{ in}$	
$S_e := 10 \text{ ft} + 3.8125 \text{ in}$	$S_e = 10.318 \text{ ft}$...Beam Spacing (Existing)
$S_w := 11 \text{ ft} + 4.6 \text{ in}$	$S_w = 11.383 \text{ ft}$...Beam Spacing (Widening)
$S_a := 0 \text{ ft} + 0 \text{ in}$	$S_a = 0$...Beam Spacing (Additional Beam)

$$Width_{total} := (N_{BeamsE} - 1) \cdot S_e + (N_{BeamsW}) \cdot S_w + S_a + overhang_left + overhang_right$$

$Width_{total} = 118.005 \text{ ft}$...Edge to edge width of deck

$Offset := 30 \text{ ft} + 5.5 \text{ in}$...Offset from CL I4 to original edge of ultimate section

$Skew := \left[90 - \left(75 + \frac{50}{60} + \frac{47}{60 \cdot 60} \right) \right] \cdot \text{deg}$ $Skew = 14.154 \text{ deg}$...Skew Angle

$L := 142 \text{ ft} + 4 \text{ in}$ $L = 142.333 \text{ ft}$...Span CL Pier - CL Pier (along CL I4)

$L_{S1} := L$ $L_{S1} = 142.333 \text{ ft}$...Span CL Pier - CL Pier (along CL bridge)

$beg_cl_brg := 1 \text{ ft} + 2.5 \text{ in}$ $beg_cl_brg = 14.5 \text{ in}$...Beam cl bearing Length Span

$end_cl_brg := 1 \text{ ft} + 2.5 \text{ in}$ $end_cl_brg = 14.5 \text{ in}$...Beam cl bearing Length Span

$L_{design_1} := L_{S1} - \frac{beg_cl_brg}{\cos(Skew)} - \frac{end_cl_brg}{\cos(Skew)}$ $L_{design_1} = 139.841 \text{ ft}$...Beam design Span Length

$J := 10 \text{ in}$ $J = 0.833 \text{ ft}$...Beam overhang past CL bearing

$L_b := L_{design_1} + 2 \cdot \frac{J}{\cos(Skew)}$ $L_b = 141.560 \text{ ft}$...Beam length Span 1

$d_{e_left} := overhang_left - Width_Barrier_left$ $d_{e_left} = 3.208 \text{ ft}$

$d_{e_right} := overhang_right - Width_Barrier_right$ $d_{e_right} = 3.208 \text{ ft}$

Made_By = "KSM Date: 08/29/13"

Checked_By = "CAM Date: 09/04/13"

B'checked_By = "KSM Date: 09/09/13"

Dead Load Calculation - Area Loads

Build-up on beam

Assume 3" build-up (CONSPAN will include 1" of build-up)

$h_{bu} := 2\text{in}$ $h_{bu} = 0.167\text{ft}$...Build-up height

$A_{bu} := h_{bu} \cdot b_t$ $A_{bu} = 0.667\text{ft}^2$...Cross-sectional area of build-up

$w_{bu} := A_{bu} \cdot \gamma_c$ $w_{bu} = 0.1\text{kif}$...Build-up line load

SIP Forms

Load on existing exterior

$p_{sip} := 0.02\text{ksf}$
 $w_{sip_e_ex} := \frac{S_e - b_t}{2} \cdot p_{sip}$ $w_{sip_e_ex} = 0.063\text{kif}$

Load on existing interior

$w_{sip_e_in} := (S_e - b_t) \cdot p_{sip}$ $w_{sip_e_in} = 0.126\text{kif}$

Load on existing interior (adjacent to widening interior)

$w_{sip_e_in2} := \left(\frac{S_e}{2} + \frac{S_w}{2} - b_t \right) \cdot p_{sip}$ $w_{sip_e_in2} = 0.137\text{kif}$

Load on widening interior

$w_{sip_w_in} := (S_w - b_t) \cdot p_{sip}$ $w_{sip_w_in} = 0.148\text{kif}$

Load on widening exterior

$w_{sip_w_in} := \left(\frac{S_w - b_t}{2} \right) \cdot p_{sip}$ $w_{sip_w_in} = 0.074\text{kif}$

Made_By = "KSM Date: 08/29/13"

Checked_By = "CAM Date: 09/04/13"

B'checked_By = "KSM Date: 09/09/13"

Light pole pedestal weight (FDOT index 21200)

No roadway lighting along SR 400 (I-4) Over St. John's River Bridge.

$w_{lpp} := 0 \frac{\text{kip}}{\text{ft}}$

$w_{lpp} = 0 \frac{\text{kip}}{\text{ft}}$

Thickened end slab

No thickened end slabs on SR 400 (I-4) Over St. John's River Bridge.

Sacrificial Deck

Load due to sacrificial deck thickness is computed within CONSPAN analysis

Dead Load Calculation - Diaphragm Loads

Intermediate Diaphragms

No intermediate diaphragms on SR 400 (I-4) Over St. John's River Bridge.

End Diaphragms

End diaphragm loads are computed within CONSPAN analysis

Dead Load Calculation - Drainage Conduit

Assume load due to drainage conduit is negligible.



Sheet #	1
Job #	

Program:	LEAP® CONSPAN® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM	
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 1984 - 2012	Date	Oct/17/2014	
	www.bentley.com	Phone: 1-800-778-4277	Checked		
File Name:	Span11EB_Ped Bridge_A4.csl			Date	

PROJECT DATA

Project:	I4 Over St. John's River Bridge
Designer:	CAM
Date:	Oct/17/2014
Checked By:	
Date Checked:	
User job number:	
State:	FL, State Job #:
State:	Florida
Specification:	
Design Code:	AASHTO LRFD - [6th Edition, 2012]
Units:	US
Span Type:	Simple Span
Flared Girder:	Yes
Comments:	Span 11 EB Pedestrian Bridge Alternative 4 56'-11" Interior Widening Uses Exterior Approx. 14' of Existing Bridge Deck for Pedestrian/Bicycle Use
File Name:	\\lkmw00\PMWORK3\Jobs\59219 - I4 SAMR\TECHPROD\43210012201\Segment 4 \structleng_data\Pedestrian Bridge Over St. Johns River\04 Conspan\Span11EB_Ped Bridge_A4.csl



Sheet #	2
Job #	

Program:	LEAP® CONSPAN® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM	
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 1984 - 2012	Date	Oct/17/2014	
	www.bentley.com	Phone: 1-800-778-4277	Checked		
File Name:	Span11EB_Ped Bridge_A4.csl			Date	

GEOMETRY DATA**ALIGNMENT DATA**

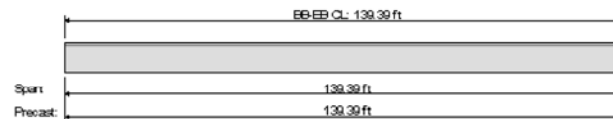
Bridge Alignment: ALG01
Beginning Station: 0+00.0000 ft

Seg	Shape	StartDirection	EndStation ft	Radius ft	Sense
1	Tangent	N 90 00 00.00 E	2+00.0000	-	-

BRIDGE LAYOUT

Overall Width (ft)	118.000
Left curb (ft)	1.542
Right curb (ft)	1.542
Curb-to-curb width (ft)	114.917
Number of spans	1
Number of lanes	9
Lane width (ft)	12.000
Eff Deck thick (in)	8.500
Sacrificial thick (in)	0.000
Haunch thickness (in)	1.000
Haunch width (in)	60.000
Bridge c/s.MI(1xx) (in4)	24924954.00

Component	RefName	Station ft	Bearing	Deck Width ft	Deck Offset ft
Begin Bridge		0+00.0000	N 0 00 00.00 W	118.0000	68.5415
Abutment	AB01	0+00.0000	N 0 00 00.00 W	118.0000	68.5415
Abutment	AB02	1+39.3907	N 14 09 12.96 W	118.0000	68.5415
End Bridge		1+39.3907	N 14 09 12.96 W	118.0000	68.5415



Bridge elevation

BEAM DATA

No	ID	Length ft	Loc-start ft	Loc-end ft	Area in2	MI(1xx) in4	Height in	Yb in	B-topg in	B-trib ft
----	----	--------------	-----------------	---------------	-------------	----------------	--------------	----------	--------------	--------------



Sheet # 3

Job #

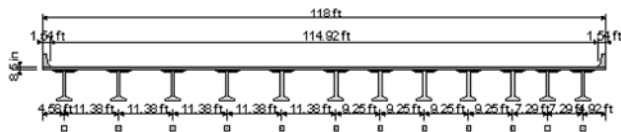
Program: LEAP® CONSPAN® V8i (SELECTseries 5) SE Client Licenses Designed CAM

Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 1984 - 2012 Date Oct/17/2014

www.bentley.com Phone: 1-800-778-4277 Checked

File Name: Span11EB_Ped Bridge_A4.csl Date

No	ID	Length ft	Loc-start ft	Loc-end ft	Area in2	MI(Ixx) in4	Height in	Yb in	B-topg in	B-trib ft
1	FIB-78	127.219	14.125	14.739	1100.6	904567.0	78.00	34.60	48.00	10.356
2	FIB-78	130.089	11.383	11.740	1100.6	904567.0	78.00	34.60	48.00	11.381
3	FIB-78	132.960	11.383	11.740	1100.6	904567.0	78.00	34.60	48.00	11.382
4	FIB-78	135.831	11.383	11.740	1100.6	904567.0	78.00	34.60	48.00	11.382
5	FIB-78	138.701	11.383	11.740	1100.6	904567.0	78.00	34.60	48.00	11.382
6	FIB-78	141.572	11.383	11.740	1100.6	904567.0	78.00	34.60	48.00	10.315
7	FIB-78	143.904	9.250	9.540	1100.6	904567.0	78.00	34.60	48.00	9.249
8	FIB-78	146.237	9.250	9.540	1100.6	904567.0	78.00	34.60	48.00	9.249
9	FIB-78	148.570	9.250	9.540	1100.6	904567.0	78.00	34.60	48.00	9.249
10	FIB-78	150.902	9.250	9.540	1100.6	904567.0	78.00	34.60	48.00	8.270
11	FIB-78	152.741	7.292	7.520	1100.6	904567.0	78.00	34.60	48.00	7.291
12	FIB-78	154.580	7.292	7.520	1100.6	904567.0	78.00	34.60	48.00	8.480



Bridge cross section

MATERIAL DATA - Project Level

As defined in Material Tab. For beam level properties look at Beam Specific output.

CONCRETE PROPERTIES

	Precast Release	Precast Final	C.I.P
f _c (ksi)	6.000	7.500	5.500
W _c (pcf)	150.000	150.000	150.000
E _c (ksi)	4016.840	4490.960	3845.830
K ₁	0.900	0.900	0.900
Thermal coeff.(1/°F)	0.00000600		

STRAND AND REBAR PROPERTIES**PRESTRESSED STEEL:**6/10-270K-LL, Low relaxation strands
Depressed at 0.40L

Sheet # 4

Job #

Program: LEAP® CONSPAN® V8i (SELECTseries 5) SE Client Licenses Designed CAM

Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 1984 - 2012 Date Oct/17/2014

www.bentley.com Phone: 1-800-778-4277 Checked

File Name: Span11EB_Ped Bridge_A4.csl Date

Strand Diameter = 0.600 in
Tensile Strength(f_{pu}) = 270.0 ksi
Use transformed strand and rebar: Strand Only

REINFORCING STEEL:
Tension/Shear steel: f_y = 60.0 ksi E_s = 29000 ksi f_s = 24.0 ksi



Sheet # 5

Job #

Program: LEAP® CONSPAN® V8i (SELECTseries 5) SE Client Licenses Designed CAM

Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 1984 - 2012 Date Oct/17/2014

www.bentley.com Phone: 1-800-778-4277 Checked

File Name: Span11EB_Ped Bridge_A4.csl Date

LOADS DATA

Loads generated using Permanent Load Wizard: YES

Left Barrier Weight, klf	0.000
Right Barrier Weight, klf	0.420
Left Curb Weight, klf	0.420
Right Curb Weight, klf	0.420
Left Sidewalk, klf	0.000
Right Sidewalk, klf	0.000
Future Wearing Surface, ksf	0.000
Sacrificial Wearing Surface, in	0.000
Stay in Place Deck Forms, klf	0.000

DEAD LOADS ON PRECAST

UNITS: (Point: kips, Location: ft, Line: klf, Trapez: klf)

Span	Beam	DC/DW	Type	Mag.1	Loc.1	Mag.2	Loc.2	Description
1	1	DC	Line	0.125	0.000	0.125	127.219	Add'l Build-Up
1	1	DC	Line	0.074	0.000	0.074	127.219	SIP
1	2	DC	Line	0.125	0.000	0.125	130.089	Add'l Build-Up
1	2	DC	Line	0.148	0.000	0.148	130.089	SIP
1	3	DC	Line	0.125	0.000	0.125	132.960	Add'l Build-Up
1	3	DC	Line	0.148	0.000	0.148	132.960	SIP
1	4	DC	Line	0.125	0.000	0.125	135.831	Add'l Build-Up
1	4	DC	Line	0.148	0.000	0.148	135.831	SIP
1	5	DC	Line	0.125	0.000	0.125	138.701	Add'l Build-Up
1	5	DC	Line	0.148	0.000	0.148	138.701	SIP
1	6	DC	Line	0.125	0.000	0.125	141.572	Add'l Build-Up
1	6	DC	Line	0.126	0.000	0.126	141.572	SIP
1	7	DC	Line	0.125	0.000	0.125	143.904	Add'l Build-Up
1	7	DC	Line	0.105	0.000	0.105	143.904	SIP
1	8	DC	Line	0.125	0.000	0.125	146.237	Add'l Build-Up
1	8	DC	Line	0.105	0.000	0.105	146.237	SIP
1	9	DC	Line	0.125	0.000	0.125	148.570	Add'l Build-Up
1	9	DC	Line	0.105	0.000	0.105	148.570	SIP
1	10	DC	Line	0.125	0.000	0.125	150.902	Add'l Build-Up
1	10	DC	Line	0.105	0.000	0.105	150.902	SIP
1	11	DC	Line	0.125	0.000	0.125	152.741	Add'l Build-Up
1	11	DC	Line	0.085	0.000	0.085	152.741	SIP
1	12	DC	Point	0.066	0.000	-	-	SIP
1	12	DC	Point	0.000	0.000	-	-	Add'l Build-Up

DIAPHRAGM LOADS - using Wizard

Span	Magnitude (plf)	Location (ft)	Skew (deg)
1	1675.000	1.000	0.000



Sheet # 6

Job #

Program: LEAP® CONSPAN® V8i (SELECTseries 5) SE Client Licenses Designed CAM

Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 1984 - 2012 Date Oct/17/2014

www.bentley.com Phone: 1-800-778-4277 Checked

File Name: Span11EB_Ped Bridge_A4.csl Date

Span	Magnitude (plf)	Location (ft)	Skew (deg)
1	1675.000	120.000	-14.150

Span	Beam	Load (Kips)	Location (ft)
1	1	9.045	1.000
1	1	9.328	123.601
1	2	18.090	1.000
1	2	18.656	126.471
1	3	18.090	1.000
1	3	18.656	129.341
1	4	18.090	1.000
1	4	18.656	132.211
1	5	18.090	1.000
1	5	18.656	135.081
1	6	16.303	1.000
1	6	16.813	137.951
1	7	14.517	1.000
1	7	14.971	140.283
1	8	14.517	1.000
1	8	14.971	142.615
1	9	14.517	1.000
1	9	14.971	144.947
1	10	12.877	1.000
1	10	13.279	147.279
1	11	11.236	1.000
1	11	11.588	149.117
1	12	5.618	1.000
1	12	5.794	150.956

DEAD LOADS ON COMPOSITE

UNITS: (Point: kips, Location: ft, Line: klf, Trapez: klf, Area: ksf, Width: ft)

Span	DC/DW	Type	Mag.1	Loc.1/Width	Mag.2	Loc.2	Description
1	DC	Line	0.420	0.000	0.420	127.219	Left Curb Weight
1	DC	Line	0.420	0.000	0.420	127.219	Right Curb Weight
1	DC	Line	0.420	0.000	0.420	127.219	Right Barrier Weight

TEMPERATURE LOADS

Temperature Loads (Degrees Fahrenheit)

Load Name	Uniform Rise	Uniform Fall	Gradient Rise Top	Gradient Rise Bottom	Gradient Fall Top	Gradient Fall Bottom



Sheet # 7

Job #

Program: LEAP® CONSPAN® V8i (SELECTseries 5) SE Client Licenses Designed CAM

Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 1984 - 2012 Date Oct/17/2014

www.bentley.com Phone: 1-800-778-4277 Checked

File Name: Span11EB_Ped Bridge_A4.csl Date

Load Name	Uniform Rise	Uniform Fall	Gradient Rise Top	Gradient Rise Bottom	Gradient Fall Top	Gradient Fall Bottom
TempTU-1	35.0	35.0				

LIVE LOADS

Live load deflection: not included.

ID	Type
Design Lane	Design Lane
Design Tandem	Design Tandem
Design Truck	Design Truck

Pedestrian Load - NONE



Sheet # 8

Job #

Program: LEAP® CONSPAN® V8i (SELECTseries 5) SE Client Licenses Designed CAM

Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 1984 - 2012 Date Oct/17/2014

www.bentley.com Phone: 1-800-778-4277 Checked

File Name: Span11EB_Ped Bridge_A4.csl Date

ANALYSIS DATA**ANALYSIS PARAMETERS DATA**

Truck impact:	1.330
Lane impact:	1.000
Strength II impact:	1.330
Fatigue impact:	1.150

DISTRIBUTION FACTORS (Art. 4.6.2.2):

Is Span Post-tensioned:	NO
Include Rigid Cross Section Assumption (Art. 4.6.2.2.2d):	YES
ADTT (Average Daily Truck Traffic) :	5000
Percent of the specified force effect :	1.00

NOTE: Beam specific dead and live load DFs are printed in beam level reports.

LOAD FACTORS: (Table 3.4.1-1 & 3.4.1-2)

	Live	DC(max)	DC(min)	DW(max)	DW(min)	TU(max)	TU(min)	TG/TML(max)	TG/TML(min)
Service I:	1.00	1.00	-	1.00	-	1.20	1.00	0.50	0.50
Service III:	0.80	1.00	-	1.00	-	-	1.00	-	0.50
Strength I:	1.75	1.25	0.90	1.50	0.65	-	0.50	-	0.00
Fatigue I:	1.50	-	-	-	-	-	-	-	-

Note: For TU, TG/TML, the Max. load factor is used for deflections and the Min. load factor for forces.

Ductility Factor:	1.00
Redundancy Factor:	1.00
Importance Factor:	1.00



Sheet # 9

Job #

Program: LEAP® CONSPAN® V8i (SELECTseries 5) SE Client Licenses Designed CAM

Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 1984 - 2012 Date Oct/17/2014

www.bentley.com Phone: 1-800-778-4277 Checked

File Name: Span11EB_Ped Bridge_A4.csl Date

**PROJECT DESIGN PARAMETERS
MULTIPLIERS:**

Trans len mult:	Bonded	1.00
	Debonded	1.00
Dev len mult:	Bonded	1.60
	Debonded	2.00

Camber & Deflection Multiplier (PCI ref.)

	Erection	Final
Prestress:	1.80	2.20
Self. Wt.:	1.85	2.40
Deck + Haunch:		2.30
Diaphragm:		3.00
DL-Prec.:		3.00
DL-Comp.:		3.00

MOMENT AND SHEAR PROVISIONS:

Ultimate Moment Capacity, Mr-prvd computed:	AASHTO equations
Horizontal Shear, Beam and Slab effects in Vu:	INCLUDED

STRESS LIMITS (Art. 5.9.4):**STRESS LIMITS AT RELEASE BEFORE LOSSES (Using Advanced Settings):**

		PRECAST	
Strength		6.00	ksi
Elasticity		4016.8	ksi
Max comp		3.60	ksi
Outer	15.00 %		
Max tens		-0.23	ksi
Max tens, w/reinf		-0.93	ksi
Center	70.00 %		
Max tens		-0.23	ksi
Max tens, w/reinf		-0.59	ksi

STRESS LIMITS AT FINAL AFTER LOSSES:

	PRECAST	DECK
Strength	7.50 ksi	5.50 ksi
Elasticity	4490.96 ksi	3845.83 ksi

STRESS LIMITS AT FINAL 1 (P/S + DL + LL):

	PRECAST	DECK
Max comp	4.50 ksi	3.30 ksi

STRESS LIMITS AT FINAL 2 (P/S + DL):

Sheet # 10

Job #

Program: LEAP® CONSPAN® V8i (SELECTseries 5) SE Client Licenses Designed CAM

Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 1984 - 2012 Date Oct/17/2014

www.bentley.com Phone: 1-800-778-4277 Checked

File Name: Span11EB_Ped Bridge_A4.csl Date

	PRECAST	DECK
Max comp	3.38 ksi	2.47 ksi

FATIGUE I STRESS LIMITS AT FINAL 3 (50% P/S + 50% DL + F_LL) (Art. 5.5.3.1):

	PRECAST	DECK
Max comp	3.00 ksi	- ksi

SERVICE III (Tension):

	PRECAST	DECK
Max tens	-0.52 ksi	-0.45 ksi

RESISTANCE FACTORS (Art. 5.5.4.2):

Flexure Reinforced	
Compression controlled sections	0.75
Tension controlled sections	0.90
Flexure Prestressed	
Compression controlled sections	0.75
Tension controlled sections	1.00
Shear	0.90

PRESTRESS LOSSES:

Time Dependent Losses, Approximate Method (Art.5.9.5.3)
Days to release = 0.75
Rel. Humid.(RH) = 75.0 %



		Sheet #	1		
		Job #			
Program:	LEAP® CONSPAN® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM	
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 1984 - 2012	Date	Oct/18/2014	
		www.bentley.com	Phone: 1-800-778-4277	Checked	
File Name:	Span12EB_Ped Brdige_A4.csl			Date	

PROJECT DATA

Project:	I4 Widening Over St. John's
Designer:	CAM
Date:	Oct/18/2014
Checked By:	
Date Checked:	
User job number:	
State:	FL, State Job #:
State	Florida
Specification:	
Design Code:	AASHTO LRFD - [6th Edition, 2012]
Units:	US
Span Type:	Simple Span
Flared Girder:	Yes
Comments:	Span 12EB Pedestrian Bridge Alternative 4 56'-11" Interior Widening Uses Exterior Approx. 14' of Existing Bridge Deck for Pedestrian/Bicycle Use
File Name:	\\Lkmw00\PMWORK3\Jobs\59219 - I4 SAMR\TECHPROD\43210012201\Segment 4 \struct\eng_data\Pedestrian Bridge Over St. Johns River\04 Conspan\Span12EB_Ped Brdige_A4.csl



Sheet #	2			
Job #				
Program:	LEAP® CONSPAN® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 1984 - 2012	Date	Oct/18/2014
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Span12EB_Ped Bridge_A4.csl			Date

GEOMETRY DATA

ALIGNMENT DATA

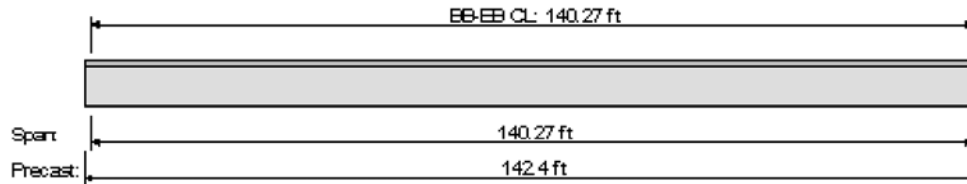
Bridge Alignment: ALG01
 Beginning Station: 0+00.0000 ft

Seg	Shape	StartDirection	EndStation ft	Radius ft	Sense
1	Tangent	N 90 00 00.00 E	2+00.0000	-	-

BRIDGE LAYOUT

Overall Width (ft)	118.000
Left curb (ft)	1.542
Right curb (ft)	1.542
Curb-to-curb width (ft)	114.917
Number of spans	1
Number of lanes	9
Lane width (ft)	12.000
Eff Deck thick (in)	8.500
Sacrificial thick (in)	0.000
Haunch thickness (in)	1.000
Haunch width (in)	60.000
Bridge c/s, MI(lxx) (in4)	23444610.00

Component	RefName	Station ft	Bearing	Deck Width ft	Deck Offset ft
Begin Bridge		0+02.0600	N 14 09 12.96 W	118.0000	6.0000
Abutment	AB01	0+02.0600	N 14 09 12.96 W	118.0000	6.0000
Abutment	AB02	1+42.3330	N 14 09 12.96 W	118.0000	6.0000
End Bridge		1+42.3330	N 14 09 12.96 W	118.0000	6.0000



Bridge elevation

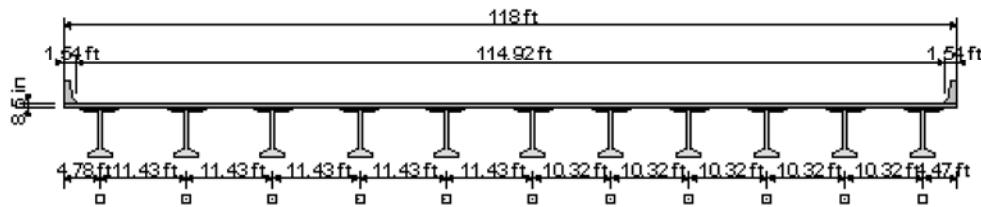
BEAM DATA

No	ID	Length ft	Loc-start ft	Loc-end ft	Area in2	MI(lxx) in4	Height in	Yb in	B-topg in	B-trib ft
----	----	--------------	-----------------	---------------	-------------	----------------	--------------	----------	--------------	--------------



		Sheet #	3	
		Job #		
Program:	LEAP® CONSPAN® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 1984 - 2012	Date	Oct/18/2014
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Span12EB_Ped Brdge_A4.csl			Date

No	ID	Length ft	Loc-start ft	Loc-end ft	Area in2	MI(Ixx) in4	Height in	Yb in	B-topg in	B-trib ft
1	FIB-78	142.397	14.793	14.793	1100.6	904567.0	78.00	34.60	48.00	10.506
2	FIB-78	142.397	11.790	11.790	1100.6	904567.0	78.00	34.60	48.00	11.442
3	FIB-78	142.397	11.790	11.790	1100.6	904567.0	78.00	34.60	48.00	11.442
4	FIB-78	142.397	11.790	11.790	1100.6	904567.0	78.00	34.60	48.00	11.442
5	FIB-78	142.397	11.790	11.790	1100.6	904567.0	78.00	34.60	48.00	11.442
6	FIB-78	142.397	11.790	11.790	1100.6	904567.0	78.00	34.60	48.00	10.885
7	FIB-78	142.397	10.641	10.641	1100.6	904567.0	78.00	34.60	48.00	10.327
8	FIB-78	142.397	10.641	10.641	1100.6	904567.0	78.00	34.60	48.00	10.327
9	FIB-78	142.397	10.641	10.641	1100.6	904567.0	78.00	34.60	48.00	10.327
10	FIB-78	142.397	10.641	10.641	1100.6	904567.0	78.00	34.60	48.00	10.327
11	FIB-78	142.397	10.641	10.641	1100.6	904567.0	78.00	34.60	48.00	9.630



Bridge cross section

MATERIAL DATA - Project Level

As defined in Material Tab. For beam level properties look at Beam Specific output.

CONCRETE PROPERTIES

	Precast Release	Precast Final	C.I.P
f _c (ksi)	6.000	7.500	5.500
W _c (pcf)	150.000	150.000	150.000
E _c (ksi)	4016.840	4490.960	3845.830
K1	0.900	0.900	0.900
Thermal coeff.(1/°F)	0.00000600		

STRAND AND REBAR PROPERTIES

PRESTRESSED STEEL:
 6/10-270K-LL, Low relaxation strands
 Depressed at 0.40L
 Strand Diameter = 0.600 in



		Sheet # 4		
		Job #		
Program:	LEAP® CONSPAN® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 1984 - 2012	Date	Oct/18/2014
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Span12EB_Ped Brdige_A4.csl			Date

Tensile Strength(fpu) = 270.0 ksi

Use transformed strand and rebar: Strand Only

REINFORCING STEEL:

Tension/Shear steel: fy = 60.0 ksi Es = 29000 ksi fs = 24.0 ksi



Sheet #	5			
Job #				
Program:	LEAP® CONSPAN® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 1984 - 2012	Date	Oct/18/2014
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Span12EB_Ped Brdige_A4.csl			Date

LOADS DATA

Loads generated using Permanent Load Wizard: YES

Left Barrier Weight, klf	0.000
Right Barrier Weight, klf	0.420
Left Curb Weight, klf	0.420
Right Curb Weight, klf	0.420
Left Sidewalk, klf	0.000
Right Sidewalk, klf	0.000
Future Wearing Surface, ksf	0.000
Sacrificial Wearing Surface, in	0.000
Stay in Place Deck Forms, klf	0.000

DEAD LOADS ON PRECAST

UNITS: (Point: kips, Location: ft, Line: klf, Trapez: klf)

Span	Beam	DC/DW	Type	Mag.1	Loc.1	Mag.2	Loc.2	Description
1	1	DC	Line	0.074	0.000	0.074	140.273	SIP
1	1	DC	Line	0.125	0.000	0.125	140.273	Haunch
1	2	DC	Line	0.148	0.000	0.148	140.273	SIP
1	2	DC	Line	0.125	0.000	0.125	140.273	Haunch
1	3	DC	Line	0.148	0.000	0.148	140.273	SIP
1	3	DC	Line	0.125	0.000	0.125	140.273	Haunch
1	4	DC	Line	0.148	0.000	0.148	140.273	SIP
1	4	DC	Line	0.125	0.000	0.125	140.273	Haunch
1	5	DC	Line	0.148	0.000	0.148	140.273	SIP
1	5	DC	Line	0.125	0.000	0.125	140.273	Haunch
1	6	DC	Line	0.126	0.000	0.126	140.273	SIP
1	6	DC	Line	0.125	0.000	0.125	140.273	Haunch
1	7	DC	Line	0.126	0.000	0.126	140.273	SIP
1	7	DC	Line	0.125	0.000	0.125	140.273	Haunch
1	8	DC	Line	0.126	0.000	0.126	140.273	SIP
1	8	DC	Line	0.125	0.000	0.125	140.273	Haunch
1	9	DC	Line	0.126	0.000	0.126	140.273	SIP
1	9	DC	Line	0.125	0.000	0.125	140.273	Haunch
1	10	DC	Line	0.126	0.000	0.126	140.273	SIP
1	10	DC	Line	0.125	0.000	0.125	140.273	Haunch
1	11	DC	Point	0.063	0.000	-	-	SIP
1	11	DC	Point	0.125	0.000	-	-	Haunch

DIAPHRAGM LOADS - using Wizard

Span	Magnitude (plf)	Location (ft)	Skew (deg)
1	1675.000	1.000	-14.154
1	1675.000	140.000	-14.150



Sheet #	6			
Job #				
Program:	LEAP® CONSPAN® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 1984 - 2012	Date	Oct/18/2014
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Span12EB_Ped Brdige_A4.csl			Date

Span	Beam	Load (kips)	Location (ft)
1	1	9.370	1.000
1	1	9.370	140.003
1	2	18.741	1.000
1	2	18.740	140.002
1	3	18.741	1.000
1	3	18.740	140.002
1	4	18.741	1.000
1	4	18.740	140.001
1	5	18.741	1.000
1	5	18.740	140.000
1	6	17.778	1.000
1	6	17.778	139.999
1	7	16.816	1.000
1	7	16.815	139.999
1	8	16.816	1.000
1	8	16.815	139.998
1	9	16.816	1.000
1	9	16.815	139.997
1	10	16.816	1.000
1	10	16.815	139.997
1	11	8.408	1.000
1	11	8.408	139.996

DEAD LOADS ON COMPOSITE

UNITS: (Point: kips, Location: ft, Line: klf, Trapez: klf, Area: ksf, Width: ft)

Span	DC/DW	Type	Mag.1	Loc.1/Width	Mag.2	Loc.2	Description
1	DC	Line	0.420	0.000	0.420	140.273	Left Curb Weight
1	DC	Line	0.420	0.000	0.420	140.273	Right Curb Weight
1	DC	Line	0.420	0.000	0.420	140.273	Right Barrier Weight

TEMPERATURE LOADS

Temperature Loads (Degrees Fahrenheit)

Load Name	Uniform Rise	Uniform Fall	Gradient Rise Top	Gradient Rise Bottom	Gradient Fall Top	Gradient Fall Bottom
TempTU-1	35.0	35.0				

LIVE LOADS

Live load deflection: not included.



Sheet #	7				
Job #					
Program:	LEAP® CONSPAN® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM	
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 1984 - 2012	Date	Oct/18/2014	
		www.bentley.com	Phone: 1-800-778-4277	Checked	
File Name:	Span12EB_Ped Brdige_A4.csl			Date	

ID	Type
Design Lane	Design Lane
Design Tandem	Design Tandem
Design Truck	Design Truck

Pedestrian Load - NONE



Sheet #	8
Job #	
Program:	LEAP® CONSPAN® V8i (SELECTseries 5)
Version:	12.01.00.57
	www.bentley.com
File Name:	Span12EB_Ped Brdige_A4.csl

SE Client Licenses	Designed	CAM
Copyright © Bentley Systems, Inc. 1984 - 2012	Date	Oct/18/2014
Phone: 1-800-778-4277	Checked	
	Date	

ANALYSIS DATA

ANALYSIS PARAMETERS DATA

Truck impact:	1.330
Lane impact:	1.000
Strength II impact:	1.330
Fatigue impact:	1.150

DISTRIBUTION FACTORS (Art. 4.6.2.2):

Is Span Post-tensioned:	NO
Include Rigid Cross Section Assumption (Art. 4.6.2.2.2d):	YES
ADTT (Average Daily Truck Traffic) :	5000
Percent of the specified force effect :	1.00

NOTE: Beam specific dead and live load DFs are printed in beam level reports.

LOAD FACTORS: (Table 3.4.1-1 & 3.4.1-2)

	Live	DC(max)	DC(min)	DW(max)	DW(min)	TU(max)	TU(min)	TG/TML(max)	TG/TML(min)
Service I:	1.00	1.00	-	1.00	-	1.20	1.00	0.50	0.50
Service III:	0.80	1.00	-	1.00	-	-	1.00	-	0.50
Strength I:	1.75	1.25	0.90	1.50	0.65	-	0.50	-	0.00
Fatigue I:	1.50	-	-	-	-	-	-	-	-

Note: For TU, TG/TML, the Max. load factor is used for deflections and the Min. load factor for forces.

Ductility Factor:	1.00
Redundancy Factor:	1.00
Importance Factor:	1.00



Sheet #	9
Job #	
Program:	LEAP® CONSPAN® V8i (SELECTseries 5)
Version:	12.01.00.57
	www.bentley.com
File Name:	Span12EB_Ped Brdige_A4.csl

PROJECT DESIGN PARAMETERS

MULTIPLIERS:

Trans len mult:	Bonded	1.00
	Debonded	1.00
Dev len mult:	Bonded	1.60
	Debonded	2.00

Camber & Deflection Multiplier (PCI ref.)

	Erection	Final
Prestress:	1.80	2.20
Self. Wt:	1.85	2.40
Deck + Haunch:		2.30
Diaphragm:		3.00
DL-Prec.:		3.00
DL-Comp.:		3.00

MOMENT AND SHEAR PROVISIONS:

Ultimate Moment Capacity, Mr-prvd computed:	AASHTO equations
Horizontal Shear, Beam and Slab effects in Vu:	INCLUDED

STRESS LIMITS (Art. 5.9.4):

STRESS LIMITS AT RELEASE BEFORE LOSSES (Using Advanced Settings):

		PRECAST	
Strength		6.00	ksi
Elasticity		4016.8	ksi
Max comp		3.60	ksi
Outer	15.00 %		
Max tens		-0.23	ksi
Max tens, w/reinf		-0.93	ksi
Center	70.00 %		
Max tens		-0.23	ksi
Max tens, w/reinf		-0.59	ksi

STRESS LIMITS AT FINAL AFTER LOSSES:

	PRECAST		DECK	
Strength	7.50	ksi	5.50	ksi
Elasticity	4490.96	ksi	3845.83	ksi

STRESS LIMITS AT FINAL 1 (P/S + DL + LL):

	PRECAST		DECK	
Max comp	4.50	ksi	3.30	ksi

STRESS LIMITS AT FINAL 2 (P/S + DL):



Sheet #	10			
Job #				
Program:	LEAP® CONSPAN® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 1984 - 2012	Date	Oct/18/2014
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Span12EB_Ped Brdige_A4.csl			Date

	PRECAST		DECK	
Max comp	3.38	ksi	2.47	ksi

FATIGUE I STRESS LIMITS AT FINAL 3 (50% P/S + 50% DL + F_LL) (Art. 5.5.3.1):

	PRECAST		DECK	
Max comp	3.00	ksi	-	ksi

SERVICE III (Tension):

	PRECAST		DECK	
Max tens	-0.52	ksi	-0.45	ksi

RESISTANCE FACTORS (Art. 5.5.4.2):

Flexure Reinforced	
Compression controlled sections	0.75
Tension controlled sections	0.90
Flexure Prestressed	
Compression controlled sections	0.75
Tension controlled sections	1.00
Shear	0.90

PRESTRESS LOSSES:

Time Dependent Losses, Approximate Method (Art.5.9.5.3)
Days to release = 0.75
Rel. Humid.(RH) = 75.0 %

FOR:	I-4 PD&E St. Johns River Veterans Memorial Bridge	JOB NO.: 59219 SHEET NO.:
MADE BY:	CAM	CHECKED BY:
DATE:	9/20/2013	DATE:




Pier 12 EB Dead Load Bearing Reactions

Bearing Line	Girder	Reaction (kips)
1	10	-165.81
1	11	-181.55
1	12	-185.41
1	13	-189.27
1	14	-193.14
1	15	-187.42
1	16	-180.74
1	17	-183.56
1	18	-186.38
1	19	-181.36
1	20	-174.02
1	21	-169.92
2	11	-185.07
2	12	-197.24
2	13	-197.24
2	14	-197.24
2	15	-197.24
2	16	-191.54
2	17	-187.39
2	18	-187.39
2	19	-187.39
2	20	-187.39
2	21	-164.7765

Notes:

Reaction sign convention taken as positive upwards
Reactions for Span 12 WB are taken from 12 EB Conspan model

		Sheet #	1
		Job #	59219
Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date 10/17/14
		www.bentley.com Phone: 1-800-778-4277	Checked
File Name:	Pier 12_Ped_A4.rcp		Date


PROJECT DATA

PROJECT DATA

Project:	I-4 PD&E - St. Johns River Bridge Evaluation
User Job No.:	59219
Designer:	CAM
Date:	10/17/14
Checker:	
Checked date:	
State:	FL
State Job No.:	
Structure type:	Pier
Pier View:	Upstation.
Code:	AASHTO LRFD (6th Edition, 2012)
Comments:	Reversible Lanes Alternative 4 Straddle Pier Option

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	2
		Job #	59219
Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date 10/17/14
		www.bentley.com Phone: 1-800-778-4277	Checked
File Name:	Pier 12_Ped_A4.rcp		Date

PIER GEOMETRY

Pier Info:

Pier View:	Upstation.
Pier Type:	Multi Column

Cap Shape

Cap Shape:	Variable
Top Elevations:	start = 47.16 ft end = 47.16 ft
Depth(Z):	54.00 in Skew angle = 14.15 Reduction of I = 1.000

Variable Cap Properties

Distance(X)	Height(Y)
ft	in
0.00	72.00
1.25	72.00
55.50	72.00
1.25	72.00
22.08	72.00
0.50	72.00
96.90	72.00
0.50	72.00
22.08	72.00
1.25	72.00
55.50	72.00
1.25	72.00

Column Shape : Rectangular Chamfered

Number of columns:	6
--------------------	---

Column number 1


Location from the left edge of the cap(X):	11.92 ft
Elevations: bottom =	4.25 ft top = 44.16 ft Reduction of I = 1.000
Column Bottom is	Fixed

Column Section Dimensions

Dist from last(Y)	Width(X)	Depth(Z)	ChamferX	ChamferZ	Variation
ft	in	in	in	in	
0.00	72.00	49.50	12.75	12.75	-----
39.91	72.00	49.50	12.75	12.75	Linear

Units: US (English)

Design Code: AASHTO LRFD

		Sheet #	3
		Job #	59219
Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date 10/17/14
		www.bentley.com	Phone: 1-800-778-4277
File Name:	Pier 12_Ped_A4.rcp	Checked	Date

Column number 2

Location from the left edge of the cap(X): 46.08 ft
 Elevations: bottom = 4.25 ft top = 44.16 ft Reduction of I = 1.000
 Column Bottom is Fixed

Column Section Dimensions

Dist from last(Y)	Width(X)	Depth(Z)	ChamferX	ChamferZ	Variation
ft	in	in	in	in	
0.00	72.00	49.50	12.75	12.75	-----
39.91	72.00	49.50	12.75	12.75	Linear

Column number 3

Location from the left edge of the cap(X): 83.17 ft
 Elevations: bottom = 4.25 ft top = 44.16 ft Reduction of I = 1.000
 Column Bottom is Fixed

Column Section Dimensions

Dist from last(Y)	Width(X)	Depth(Z)	ChamferX	ChamferZ	Variation
ft	in	in	in	in	
0.00	72.00	49.50	12.75	12.75	-----
39.91	72.00	49.50	12.75	12.75	Linear

Column number 4

Location from the left edge of the cap(X): 174.90 ft
 Elevations: bottom = 4.25 ft top = 44.16 ft Reduction of I = 1.000
 Column Bottom is Fixed

Column Section Dimensions

Dist from last(Y)	Width(X)	Depth(Z)	ChamferX	ChamferZ	Variation
ft	in	in	in	in	
0.00	72.00	49.50	12.75	12.75	-----
39.91	72.00	49.50	12.75	12.75	Linear

Column number 5


Location from the left edge of the cap(X): 211.98 ft
 Elevations: bottom = 4.25 ft top = 44.16 ft Reduction of I = 1.000
 Column Bottom is Fixed

Column Section Dimensions

Dist from last(Y)	Width(X)	Depth(Z)	ChamferX	ChamferZ	Variation
ft	in	in	in	in	
0.00	72.00	49.50	12.75	12.75	-----
39.91	72.00	49.50	12.75	12.75	Linear

Column number 6

Location from the left edge of the cap(X): 246.15 ft
 Elevations: bottom = 4.25 ft top = 44.16 ft Reduction of I = 1.000
 Column Bottom is Fixed

		Sheet #	4
		Job #	59219
Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date 10/17/14
		www.bentley.com	Phone: 1-800-778-4277
File Name:	Pier 12_Ped_A4.rcp	Checked	Date

Column Section Dimensions

Dist from last(Y)	Width(X)	Depth(Z)	ChamferX	ChamferZ	Variation
ft	in	in	in	in	
0.00	72.00	49.50	12.75	12.75	-----
39.91	72.00	49.50	12.75	12.75	Linear

Struts

Strut Shape : Rectangular
 Number of struts: 1

Struts properties

Strut number 1
 Elevations: start = 10.25 ft end = 10.25 ft
 Depth(Z) = 24.00 in Height(Y) = 72.00 in Reduction of I = 1.000



Sheet #	5
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	10/17/14
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier 12_Ped_A4.rcp	Date		

SUPERSTRUCTURE INFO

Superstructure info:

Total number of spans:	2
Span number rear to current pier:	1
Number of traffic lanes:	9
Barrier height :	32.00 in
Depth of slab :	8.50 in
Curb to curb distance: 0.000	252.717 ft

Beam info:

Height in	Section area in^2	Inertia (Ixx) in^4	Inertia (Iyy) in^4	Beam CG in
78.00	1105.00	903861.00	82270.00	34.63

Span #	Span length ft	Bridge Width ft
1	121.167	255.080
2	142.333	255.080
		255.080



Sheet #	6
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	10/17/14
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier 12_Ped_A4.rcp	Date		

BEARING POINTS

Number of bearing lines: 2

First bearing line Eccentricity = 1.21 ft

Point	Distance ft
1	2.09
2	15.40
3	28.70
4	42.00
5	55.30
6	65.93
7	76.56
8	87.19
9	97.82
10	142.68
11	154.47
12	166.26
13	178.05
14	189.84
15	201.63
16	211.17
17	220.71
18	230.25
19	239.79
20	247.31
21	254.83

Second bearing line Eccentricity = -1.21 ft

Point	Distance ft
1	2.70
2	13.34
3	23.98
4	34.63
5	45.27
6	55.91
7	66.74
8	77.57
9	88.40
10	99.23
11	144.13
12	155.92
13	167.71
14	179.50
15	191.29
16	203.08
17	213.72
18	224.36



Sheet #	7
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	10/17/14
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier 12_Ped_A4.rcp		Date	

Point	Distance ft
19	235.00
20	245.64
21	256.28



Sheet #	8
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	10/17/14
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier 12_Ped_A4.rcp		Date	

MATERIAL PROPERTIES

MATERIAL PROPERTIES

	Cap	Column	Footing
Concrete Type	normal	normal	normal
Concrete Strength (psi)	5500.00	5500.00	5500.00
Concrete Density (lb/ft3)	150.00	150.00	150.00
Concrete Modulus Ec (ksi)	4496.06	4496.06	4496.06
Steel Strength Fy (ksi)	60.00	60.00	60.00



Sheet #	9				
Job #	59219				
Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM	
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	10/17/14	
		www.bentley.com	Phone: 1-800-778-4277	Checked	
File Name:	Pier 12_Ped_A4.rcp		Date		

DESIGN PARAMETERS

Resistance factors for reinf. concrete

Flexure and tension	0.90
Shear and torsion (normal)	0.90
Shear and torsion (lightweight)	0.70
Axial compression (ties)	0.75
Axial compression (spiral)	0.75
Compression in STM	0.70

Multi presence factors for live load

1 Lane	1.20
2 Lanes	1.00
3 Lanes	0.85
more than 3 Lanes	0.65

Dynamic load allowance IM

	Truck	Lane	Fatigue
Cap	0.33	0.00	0.15
Column	0.33	0.00	0.15
Footing	0.00	0.00	0.00

	Exposure factors	Clear cover in	Clear side cover in
Cap	1.00	2.00	2.00
Column	1.00	2.00	2.00
Footing	1.00	3.00	3.00

Degree of fixity in foundations for Moment Magnify Method: Ga = 5.00

SEISMIC DESIGN PARAMETERS

Strength Reduction factors for reinf. Concrete Seismic Design

Seismic Overstrength

Flexure and tension	1.30
Axial compression (ties)	1.30
Axial compression (spiral)	1.30

Response Modification Factor 5.00

Use core area for plastic hinging calculations.

Design Factors

--	--



Sheet #	10				
Job #	59219				
Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM	
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	10/17/14	
		www.bentley.com	Phone: 1-800-778-4277	Checked	
File Name:	Pier 12_Ped_A4.rcp		Date		

Cap Design Factor	1.20
Footing Design Factor	1.20

Plastic Hinge Moment

Use actual computed Plastic Hinging Moment for each column in all combinations.



Sheet #	11
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM	
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	10/17/14	
		www.bentley.com Phone: 1-800-778-4277	Checked		
File Name:	Pier 12_Ped_A4.rcp			Date	

LOADS

Pier Info:
 Pier View: Upstation.

Load Cases: 53

Loadcase ID: DC1 Name: EB + WB
 Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	-106.10
1	2	Y	-128.60
1	3	Y	-133.50
1	4	Y	-138.10
1	5	Y	-135.20
1	6	Y	-131.00
1	7	Y	-134.50
1	8	Y	-138.00
1	9	Y	-130.30
1	10	Y	-175.30
1	11	Y	-199.90
1	12	Y	-203.60
1	13	Y	-207.60
1	14	Y	-211.40
1	15	Y	-204.00
1	16	Y	-195.40
1	17	Y	-198.20
1	18	Y	-201.10
1	19	Y	-194.40
1	20	Y	-185.40
1	21	Y	-175.10
2	1	Y	-172.30
2	2	Y	-202.50
2	3	Y	-202.50
2	4	Y	-202.50
2	5	Y	-201.50



Sheet #	12
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM	
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	10/17/14	
		www.bentley.com Phone: 1-800-778-4277	Checked		
File Name:	Pier 12_Ped_A4.rcp			Date	

Line #	Bearing #	Dir	Load kips
2	6	Y	-200.50
2	7	Y	-200.50
2	8	Y	-200.50
2	9	Y	-200.50
2	10	Y	-199.40
2	11	Y	-194.40
2	12	Y	-215.80
2	13	Y	-215.80
2	14	Y	-215.80
2	15	Y	-215.80
2	16	Y	-209.20
2	17	Y	-204.00
2	18	Y	-204.00
2	19	Y	-204.00
2	20	Y	-204.00
2	21	Y	-173.10

Loadcase ID: LL1 Name: 11 WB
 Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Y	-132.40
1	2	Y	-139.30
1	3	Y	-139.30
1	4	Y	-139.30
1	5	Y	-130.00
1	6	Y	-120.40
1	7	Y	-120.40
1	8	Y	-120.40
1	9	Y	-116.60



Sheet #	13				
Job #	59219				
Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM	
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	10/17/14	
		www.bentley.com	Phone: 1-800-778-4277	Checked	
File Name:	Pier 12_Ped_A4.rcp		Date		

Loadcase ID: LL2 Name: 11 EB
Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	10	Y	-129.50
1	11	Y	-135.60
1	12	Y	-135.60
1	13	Y	-135.60
1	14	Y	-135.60
1	15	Y	-126.40
1	16	Y	-117.00
1	17	Y	-117.00
1	18	Y	-117.00
1	19	Y	-108.20
1	20	Y	-99.10
1	21	Y	-116.00

Loadcase ID: LL3 Name: 12 WB
Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
2	1	Y	-108.30



Sheet #	14				
Job #	59219				
Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM	
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	10/17/14	
		www.bentley.com	Phone: 1-800-778-4277	Checked	
File Name:	Pier 12_Ped_A4.rcp		Date		

Line #	Bearing #	Dir	Load kips
2	2	Y	-138.80
2	3	Y	-138.80
2	4	Y	-138.80
2	5	Y	-137.90
2	6	Y	-137.10
2	7	Y	-137.10
2	8	Y	-137.10
2	9	Y	-137.10
2	10	Y	-167.70

Loadcase ID: LL4 Name: 12 EB
Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
2	11	Y	-140.90
2	12	Y	-147.40
2	13	Y	-147.40
2	14	Y	-147.40
2	15	Y	-147.40
2	16	Y	-142.30
2	17	Y	-137.10
2	18	Y	-137.10
2	19	Y	-137.10
2	20	Y	-137.10
2	21	Y	-133.00



Sheet #	15
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	10/17/14
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier 12_Ped_A4.rcp			Date

Loadcase ID: BR1 Name: 11 WB
Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	Z	14.60
1	2	Z	14.60
1	3	Z	14.60
1	4	Z	14.60
1	5	Z	14.60
1	6	Z	14.60
1	7	Z	14.60
1	8	Z	14.60
1	9	Z	14.60

Loadcase ID: BR2 Name: 11 EB
Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	10	Y	-1.70
1	11	Y	-1.80
1	12	Y	-1.80
1	13	Y	-1.70
1	14	Y	-1.70
1	15	Y	-1.50
1	16	Y	-1.40
1	17	Y	-1.40
1	18	Y	-1.40
1	19	Y	-1.20



Sheet #	16
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	10/17/14
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier 12_Ped_A4.rcp			Date

Line #	Bearing #	Dir	Load kips
1	20	Y	-1.10
1	21	Y	-1.00
2	10	Z	-13.60
2	11	Z	-13.60
2	12	Z	-13.60
2	13	Z	-13.60
2	14	Z	-13.60
2	15	Z	-13.60
2	16	Z	-13.60
2	17	Z	-13.60
2	18	Z	-13.60
2	19	Z	-13.60
2	20	Z	-13.60
2	21	Z	-13.60

Loadcase ID: BR3 Name: 12 WB
Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
2	1	Y	-1.20
2	2	Y	-1.60
2	3	Y	-1.60
2	4	Y	-1.60
2	5	Y	-1.60
2	6	Y	-1.60
2	7	Y	-1.60
2	8	Y	-1.60
2	9	Y	-1.60
2	10	Y	-1.80
2	1	Z	13.40
2	2	Z	13.40
2	3	Z	13.40
2	4	Z	13.40
2	5	Z	13.40



Sheet # 17
Job # 59219

Program: LEAP® RC-PIER® V8i (SELECTseries 5) SE Client Licenses Designed CAM
Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 Date 10/17/14
www.bentley.com Phone: 1-800-778-4277 Checked
File Name: Pier 12_Ped_A4.rcp Date

Line #	Bearing #	Dir	Load kips
2	6	Z	13.40
2	7	Z	13.40
2	8	Z	13.40
2	9	Z	13.40
2	10	Z	13.40

Loadcase ID: BR4 Name: 12 EB
Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
2	10	Z	-13.70
2	11	Z	-13.70
2	12	Z	-13.70
2	13	Z	-13.70
2	14	Z	-13.70
2	15	Z	-13.70
2	16	Z	-13.70
2	17	Z	-13.70
2	18	Z	-13.70
2	19	Z	-13.70
2	20	Z	-13.70
2	21	Z	-13.70

Loadcase ID: WS1 Name: WB 75
Multiplier = 1.000



Sheet # 18
Job # 59219

Program: LEAP® RC-PIER® V8i (SELECTseries 5) SE Client Licenses Designed CAM
Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 Date 10/17/14
www.bentley.com Phone: 1-800-778-4277 Checked
File Name: Pier 12_Ped_A4.rcp Date

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Force	X	0.00	-12.30 kips	0.50		
UDL	Z		0.22 kf	0.00		1.00

Column loads

Col #	Type	Dir	Mag1	y1/L	Mag2	y2/L
1	UDL	Z	0.291 kf	0.00		1.00
1	UDL	X	-0.162 kf	0.00		1.00
2	UDL	X	-0.162 kf	0.00		0.92
2	UDL	Z	0.291 kf	0.00		0.92
3	UDL	Z	0.291 kf	0.00		1.00
3	UDL	X	-0.162 kf	0.00		1.00
4	UDL	X	0.162 kf	0.00		0.92
4	UDL	Z	-0.291 kf	0.00		0.92
5	UDL	X	0.162 kf	0.00		1.00
5	UDL	Z	-0.291 kf	0.00		1.00
6	UDL	X	0.162 kf	0.00		0.92
6	UDL	Z	-0.291 kf	0.00		0.92

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	-0.93
1	1	Y	-0.43
1	1	Z	1.08
1	2	X	-0.93
1	2	Y	0.00
1	2	Z	1.08
1	3	X	-0.93
1	3	Y	0.00
1	3	Z	1.08
1	4	X	-0.93
1	4	Y	0.00
1	4	Z	1.08
1	5	X	-0.93
1	5	Y	0.00
1	5	Z	1.08
1	6	X	-0.93
1	6	Y	0.00
1	6	Z	1.08
1	7	X	-0.93
1	7	Y	0.00
1	7	Z	1.08



Sheet # 19
Job # 59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	10/17/14
File Name:		www.bentley.com	Phone: 1-800-778-4277	Checked
			Date	

Line #	Bearing #	Dir	Load kips
1	8	X	-0.93
1	8	Y	0.00
1	8	Z	1.08
1	9	X	-0.93
1	9	Y	0.43
1	9	Z	1.08
2	1	X	-1.40
2	1	Y	-0.72
2	1	Z	1.63
2	2	X	-1.40
2	2	Y	0.00
2	2	Z	1.63
2	3	X	-1.40
2	3	Y	0.00
2	3	Z	1.63
2	4	X	-1.40
2	4	Y	0.00
2	4	Z	1.63
2	5	X	-1.40
2	5	Y	0.00
2	5	Z	1.63
2	6	X	-1.40
2	6	Y	0.00
2	6	Z	1.63
2	7	X	-1.40
2	7	Y	0.00
2	7	Z	1.63
2	8	X	-1.40
2	8	Y	0.00
2	8	Z	1.63
2	9	X	-1.40
2	9	Y	0.00
2	9	Z	1.63
2	10	X	-1.40
2	10	Y	0.72
2	10	Z	1.63

Loadcase ID: WS2 Name: WB 60
Multiplier = 1.000

Cap loads



Sheet # 20
Job # 59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	10/17/14
File Name:		www.bentley.com	Phone: 1-800-778-4277	Checked
			Date	

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Force	X	0.00	-14.70 kips	0.50		
UDL	Z		0.15 kf	0.00		1.00

Column loads

Col #	Type	Dir	Mag1	y1/L	Mag2	y2/L
1	UDL	Z	0.237 kf	0.00		1.00
1	UDL	X	-0.230 kf	0.00		1.00
2	UDL	X	-0.230 kf	0.00		0.92
2	UDL	Z	0.237 kf	0.00		0.92
3	UDL	Z	0.237 kf	0.00		1.00
3	UDL	X	-0.230 kf	0.00		1.00
4	UDL	X	0.230 kf	0.00		0.92
4	UDL	Z	-0.237 kf	0.00		0.92
5	UDL	X	0.230 kf	0.00		1.00
5	UDL	Z	-0.237 kf	0.00		1.00
6	UDL	X	0.230 kf	0.00		0.92
6	UDL	Z	-0.237 kf	0.00		0.92

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	-1.22
1	1	Y	-0.57
1	1	Z	0.83
1	2	X	-1.22
1	2	Y	0.00
1	2	Z	0.83
1	3	X	-1.22
1	3	Y	0.00
1	3	Z	0.83
1	4	X	-1.22
1	4	Y	0.00
1	4	Z	0.83
1	5	X	-1.22
1	5	Y	0.00
1	5	Z	0.83
1	6	X	-1.22
1	6	Y	0.00
1	6	Z	0.83
1	7	X	-1.22
1	7	Y	0.00
1	7	Z	0.83



Sheet # 21
Job # 59219

Program: LEAP® RC-PIER® V8i (SELECTseries 5) SE Client Licenses Designed CAM
Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 Date 10/17/14
www.bentley.com Phone: 1-800-778-4277 Checked
File Name: Pier 12_Ped_A4.rcp Date

Line #	Bearing #	Dir	Load kips
1	8	X	-1.22
1	8	Y	0.00
1	8	Z	0.83
1	9	X	-1.22
1	9	Y	0.57
1	9	Z	0.83
2	1	X	-1.84
2	1	Y	-0.95
2	1	Z	1.25
2	2	X	-1.84
2	2	Y	0.00
2	2	Z	1.25
2	3	X	-1.84
2	3	Y	0.00
2	3	Z	1.25
2	4	X	-1.84
2	4	Y	0.00
2	4	Z	1.25
2	5	X	-1.84
2	5	Y	0.00
2	5	Z	1.25
2	6	X	-1.84
2	6	Y	0.00
2	6	Z	1.25
2	7	X	-1.84
2	7	Y	0.00
2	7	Z	1.25
2	8	X	-1.84
2	8	Y	0.00
2	8	Z	1.25
2	9	X	-1.84
2	9	Y	0.00
2	9	Z	1.25
2	10	X	-1.84
2	10	Y	0.95
2	10	Z	1.25

Loadcase ID: WS3 Name: WB 45
Multiplier = 1.000

Cap loads



Sheet # 22
Job # 59219

Program: LEAP® RC-PIER® V8i (SELECTseries 5) SE Client Licenses Designed CAM
Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 Date 10/17/14
www.bentley.com Phone: 1-800-778-4277 Checked
File Name: Pier 12_Ped_A4.rcp Date

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Force	X	0.00	-13.33 kips	0.50		
UDL	Z		0.08 kf	0.00		1.00

Column loads

Col #	Type	Dir	Mag1	y1/L	Mag2	y2/L
1	UDL	Z	0.156 kf	0.00		1.00
1	UDL	X	-0.261 kf	0.00		1.00
2	UDL	X	-0.261 kf	0.00		0.92
2	UDL	Z	0.156 kf	0.00		0.92
3	UDL	Z	0.156 kf	0.00		1.00
3	UDL	X	-0.261 kf	0.00		1.00
4	UDL	X	0.261 kf	0.00		0.92
4	UDL	Z	-0.156 kf	0.00		0.92
5	UDL	X	0.261 kf	0.00		1.00
5	UDL	Z	-0.156 kf	0.00		1.00
6	UDL	X	0.261 kf	0.00		0.92
6	UDL	Z	-0.156 kf	0.00		0.92

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	-2.08
1	1	Y	-0.96
1	1	Z	0.43
1	2	X	-2.08
1	2	Y	0.00
1	2	Z	0.43
1	3	X	-2.08
1	3	Y	0.00
1	3	Z	0.43
1	4	X	-2.08
1	4	Y	0.00
1	4	Z	0.43
1	5	X	-2.08
1	5	Y	0.00
1	5	Z	0.43
1	6	X	-2.08
1	6	Y	0.00
1	6	Z	0.43
1	7	X	-2.08
1	7	Y	0.00
1	7	Z	0.43



Sheet # 23
Job # 59219

Program: LEAP® RC-PIER® V8i (SELECTseries 5) SE Client Licenses Designed CAM
Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 Date 10/17/14
www.bentley.com Phone: 1-800-778-4277 Checked
File Name: Pier 12_Ped_A4.rcp Date

Line #	Bearing #	Dir	Load kips
1	8	X	-2.08
1	8	Y	0.00
1	8	Z	0.43
1	9	X	-2.08
1	9	Y	0.96
1	9	Z	0.43
2	1	X	-3.13
2	1	Y	-1.61
2	1	Z	0.65
2	2	X	-3.13
2	2	Y	0.00
2	2	Z	0.65
2	3	X	-3.13
2	3	Y	0.00
2	3	Z	0.65
2	4	X	-3.13
2	4	Y	0.00
2	4	Z	0.65
2	5	X	-3.13
2	5	Y	0.00
2	5	Z	0.65
2	6	X	-3.13
2	6	Y	0.00
2	6	Z	0.65
2	7	X	-3.13
2	7	Y	0.00
2	7	Z	0.65
2	8	X	-3.13
2	8	Y	0.00
2	8	Z	0.65
2	9	X	-3.13
2	9	Y	0.00
2	9	Z	0.65
2	10	X	-3.13
2	10	Y	1.61
2	10	Z	0.65

Loadcase ID: WS4 Name: WB 30
Multiplier = 1.000

Cap loads



Sheet # 24
Job # 59219

Program: LEAP® RC-PIER® V8i (SELECTseries 5) SE Client Licenses Designed CAM
Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 Date 10/17/14
www.bentley.com Phone: 1-800-778-4277 Checked
File Name: Pier 12_Ped_A4.rcp Date

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Force	X	0.00	-8.56 kips	0.50		
UDL	Z		0.02 klf	0.00		1.00

Column loads

Col #	Type	Dir	Mag1	y1/L	Mag2	y2/L
1	UDL	Z	0.070 klf	0.00		1.00
1	UDL	X	-0.248 klf	0.00		1.00
2	UDL	X	-0.248 klf	0.00		0.92
2	UDL	Z	0.070 klf	0.00		0.92
3	UDL	Z	0.070 klf	0.00		1.00
3	UDL	X	-0.248 klf	0.00		1.00
4	UDL	X	0.248 klf	0.00		0.92
4	UDL	Z	-0.070 klf	0.00		0.92
5	UDL	X	0.248 klf	0.00		1.00
5	UDL	Z	-0.070 klf	0.00		1.00
6	UDL	X	0.248 klf	0.00		0.92
6	UDL	Z	-0.070 klf	0.00		0.92

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	-2.47
1	1	Y	-1.14
1	1	Z	0.09
1	2	X	-2.47
1	2	Y	0.00
1	2	Z	0.09
1	3	X	-2.47
1	3	Y	0.00
1	3	Z	0.09
1	4	X	-2.47
1	4	Y	0.00
1	4	Z	0.09
1	5	X	-2.47
1	5	Y	0.00
1	5	Z	0.09
1	6	X	-2.47
1	6	Y	0.00
1	6	Z	0.09
1	7	X	-2.47
1	7	Y	0.00
1	7	Z	0.09



Sheet # 25
Job # 59219

Program: LEAP® RC-PIER® V8i (SELECTseries 5) SE Client Licenses Designed CAM
Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 Date 10/17/14
www.bentley.com Phone: 1-800-778-4277 Checked
File Name: Pier 12_Ped_A4.rcp Date

Line #	Bearing #	Dir	Load kips
1	8	X	-2.47
1	8	Y	0.00
1	8	Z	0.09
1	9	X	-2.47
1	9	Y	1.14
1	9	Z	0.09
2	1	X	-3.73
2	1	Y	-1.91
2	1	Z	0.14
2	2	X	-3.73
2	2	Y	0.00
2	2	Z	0.14
2	3	X	-3.73
2	3	Y	0.00
2	3	Z	0.14
2	4	X	-3.73
2	4	Y	0.00
2	4	Z	0.14
2	5	X	-3.73
2	5	Y	0.00
2	5	Z	0.14
2	6	X	-3.73
2	6	Y	0.00
2	6	Z	0.14
2	7	X	-3.73
2	7	Y	0.00
2	7	Z	0.14
2	8	X	-3.73
2	8	Y	0.00
2	8	Z	0.14
2	9	X	-3.73
2	9	Y	0.00
2	9	Z	0.14
2	10	X	-3.73
2	10	Y	1.91
2	10	Z	0.14

Loadcase ID: WS5 Name: WB 15
Multiplier = 1.000

Cap loads



Sheet # 26
Job # 59219

Program: LEAP® RC-PIER® V8i (SELECTseries 5) SE Client Licenses Designed CAM
Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 Date 10/17/14
www.bentley.com Phone: 1-800-778-4277 Checked
File Name: Pier 12_Ped_A4.rcp Date

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Force	X	0.00	-1.66 kips	0.50		
UDL	Z		0.00 klf	0.00		1.00

Column loads

Col #	Type	Dir	Mag1	y1/L	Mag2	y2/L
1	UDL	Z	0.003 klf	0.00		1.00
1	UDL	X	-0.194 klf	0.00		1.00
2	UDL	X	-0.194 klf	0.00		0.92
2	UDL	Z	0.003 klf	0.00		1.00
3	UDL	Z	0.003 klf	0.00		1.00
3	UDL	X	-0.194 klf	0.00		1.00
4	UDL	X	0.194 klf	0.00		0.92
4	UDL	Z	-0.003 klf	0.00		0.92
5	UDL	X	0.194 klf	0.00		1.00
5	UDL	Z	-0.003 klf	0.00		1.00
6	UDL	X	0.194 klf	0.00		0.92
6	UDL	Z	-0.003 klf	0.00		0.92

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	-2.55
1	1	Y	-1.18
1	1	Z	-0.29
1	2	X	-2.55
1	2	Y	0.00
1	2	Z	-0.29
1	3	X	-2.55
1	3	Y	0.00
1	3	Z	-0.29
1	4	X	-2.55
1	4	Y	0.00
1	4	Z	-0.29
1	5	X	-2.55
1	5	Y	0.00
1	5	Z	-0.29
1	6	X	-2.55
1	6	Y	0.00
1	6	Z	-0.29
1	7	X	-2.55
1	7	Y	0.00
1	7	Z	-0.29



Sheet # 27
Job # 59219

Program: LEAP® RC-PIER® V8i (SELECTseries 5) SE Client Licenses Designed CAM
Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 Date 10/17/14
www.bentley.com Phone: 1-800-778-4277 Checked
File Name: Pier 12_Ped_A4.rcp Date

Line #	Bearing #	Dir	Load kips
1	8	X	-2.55
1	8	Y	0.00
1	8	Z	-0.29
1	9	X	-2.55
1	9	Y	1.18
1	9	Z	-0.29
2	1	X	-3.85
2	1	Y	-1.98
2	1	Z	-0.43
2	2	X	-3.85
2	2	Y	0.00
2	2	Z	-0.43
2	3	X	-3.85
2	3	Y	0.00
2	3	Z	-0.43
2	4	X	-3.85
2	4	Y	0.00
2	4	Z	-0.43
2	5	X	-3.85
2	5	Y	0.00
2	5	Z	-0.43
2	6	X	-3.85
2	6	Y	0.00
2	6	Z	-0.43
2	7	X	-3.85
2	7	Y	0.00
2	7	Z	-0.43
2	8	X	-3.85
2	8	Y	0.00
2	8	Z	-0.43
2	9	X	-3.85
2	9	Y	0.00
2	9	Z	-0.43
2	10	X	-3.85
2	10	Y	1.98
2	10	Z	-0.43

Loadcase ID: WS6 Name: WB 0
Multiplier = 1.000

Cap loads



Sheet # 28
Job # 59219

Program: LEAP® RC-PIER® V8i (SELECTseries 5) SE Client Licenses Designed CAM
Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 Date 10/17/14
www.bentley.com Phone: 1-800-778-4277 Checked
File Name: Pier 12_Ped_A4.rcp Date

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Force	X	0.00	-7.86 kips	0.50		
UDL	Z		-0.02 kif	0.00		1.00

Column loads

Col #	Type	Dir	Mag1	y1/L	Mag2	y2/L
1	UDL	Z	-0.061 kif	0.00		1.00
1	UDL	X	-0.244 kif	0.00		1.00
2	UDL	X	-0.244 kif	0.00		0.92
2	UDL	Z	-0.061 kif	0.00		0.92
3	UDL	Z	-0.061 kif	0.00		1.00
3	UDL	X	-0.244 kif	0.00		1.00
4	UDL	X	0.244 kif	0.00		0.92
4	UDL	Z	0.061 kif	0.00		0.92
5	UDL	X	0.244 kif	0.00		1.00
5	UDL	Z	0.061 kif	0.00		1.00
6	UDL	X	0.244 kif	0.00		0.92
6	UDL	Z	0.061 kif	0.00		0.92

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	-2.80
1	1	Y	-15.04
1	1	Z	-0.71
1	2	X	-2.80
1	2	Y	9.73
1	2	Z	-0.71
1	3	X	-2.80
1	3	Y	9.73
1	3	Z	-0.71
1	4	X	-2.80
1	4	Y	9.73
1	4	Z	-0.71
1	5	X	-2.80
1	5	Y	9.73
1	5	Z	-0.71
1	6	X	-2.80
1	6	Y	9.73
1	6	Z	-0.71
1	7	X	-2.80
1	7	Y	9.73
1	7	Z	-0.71



Sheet # 29
Job # 59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	10/17/14
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier 12_Ped_A4.rcp			Date

Line #	Bearing #	Dir	Load kips
1	8	X	-2.80
1	8	Y	9.73
1	8	Z	-0.71
1	9	X	-2.80
1	9	Y	34.49
1	9	Z	-0.71
2	1	X	-4.23
2	1	Y	-26.84
2	1	Z	-1.07
2	2	X	-4.23
2	2	Y	14.67
2	2	Z	-1.07
2	3	X	-4.23
2	3	Y	14.67
2	3	Z	-1.07
2	4	X	-4.23
2	4	Y	14.67
2	4	Z	-1.07
2	5	X	-4.23
2	5	Y	14.67
2	5	Z	-1.07
2	6	X	-4.23
2	6	Y	14.67
2	6	Z	-1.07
2	7	X	-4.23
2	7	Y	14.67
2	7	Z	-1.07
2	8	X	-4.23
2	8	Y	14.67
2	8	Z	-1.07
2	9	X	-4.23
2	9	Y	14.67
2	9	Z	-1.07
2	10	X	-4.23
2	10	Y	56.18
2	10	Z	-1.07

Loadcase ID: WS7 Name: WB -15

Multiplier = 1.000

Cap loads



Sheet # 30
Job # 59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	10/17/14
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier 12_Ped_A4.rcp			Date

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Force	X	0.00	-12.95 kips	0.50		
UDL	Z		-0.07 klf	0.00		1.00

Column loads

Col #	Type	Dir	Mag1	y1/L	Mag2	y2/L
1	UDL	Z	-0.146 klf	0.00		1.00
1	UDL	X	-0.262 klf	0.00		1.00
2	UDL	X	-0.262 klf	0.00		0.92
2	UDL	Z	-0.146 klf	0.00		0.92
3	UDL	Z	-0.146 klf	0.00		1.00
3	UDL	X	-0.262 klf	0.00		1.00
4	UDL	X	0.262 klf	0.00		0.92
4	UDL	Z	0.146 klf	0.00		0.92
5	UDL	X	0.262 klf	0.00		1.00
5	UDL	Z	0.146 klf	0.00		1.00
6	UDL	X	0.262 klf	0.00		0.92
6	UDL	Z	0.146 klf	0.00		0.92

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	-2.38
1	1	Y	-1.10
1	1	Z	-0.96
1	2	X	-2.38
1	2	Y	0.00
1	2	Z	-0.96
1	3	X	-2.38
1	3	Y	0.00
1	3	Z	-0.96
1	4	X	-2.38
1	4	Y	0.00
1	4	Z	-0.96
1	5	X	-2.38
1	5	Y	0.00
1	5	Z	-0.96
1	6	X	-2.38
1	6	Y	0.00
1	6	Z	-0.96
1	7	X	-2.38
1	7	Y	0.00
1	7	Z	-0.96



Sheet # 31
Job # 59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	10/17/14
File Name:		www.bentley.com	Phone:	1-800-778-4277
File Name:		Pier 12_Ped_A4.rcp	Checked	
File Name:		Pier 12_Ped_A4.rcp	Date	

Line #	Bearing #	Dir	Load kips
1	8	X	-2.38
1	8	Y	0.00
1	8	Z	-0.96
1	9	X	-2.38
1	9	Y	1.10
1	9	Z	-0.96
2	1	X	-3.60
2	1	Y	-1.85
2	1	Z	-1.45
2	2	X	-3.60
2	2	Y	0.00
2	2	Z	-1.45
2	3	X	-3.60
2	3	Y	0.00
2	3	Z	-1.45
2	4	X	-3.60
2	4	Y	0.00
2	4	Z	-1.45
2	5	X	-3.60
2	5	Y	0.00
2	5	Z	-1.45
2	6	X	-3.60
2	6	Y	0.00
2	6	Z	-1.45
2	7	X	-3.60
2	7	Y	0.00
2	7	Z	-1.45
2	8	X	-3.60
2	8	Y	0.00
2	8	Z	-1.45
2	9	X	-3.60
2	9	Y	0.00
2	9	Z	-1.45
2	10	X	-3.60
2	10	Y	1.85
2	10	Z	-1.45

Loadcase ID: WS8 Name: WB -30

Multiplier = 1.000

Cap loads



Sheet # 32
Job # 59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	10/17/14
File Name:		www.bentley.com	Phone:	1-800-778-4277
File Name:		Pier 12_Ped_A4.rcp	Checked	
File Name:		Pier 12_Ped_A4.rcp	Date	

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Force	X	0.00	-14.74 kips	0.50		
UDL	Z		-0.14 klf	0.00		1.00

Column loads

Col #	Type	Dir	Mag1	y1/L	Mag2	y2/L
1	UDL	Z	-0.228 klf	0.00		1.00
1	UDL	X	-0.235 klf	0.00		1.00
2	UDL	X	-0.235 klf	0.00		0.92
2	UDL	Z	-0.228 klf	0.00		0.92
3	UDL	Z	-0.228 klf	0.00		1.00
3	UDL	X	-0.235 klf	0.00		1.00
4	UDL	X	0.235 klf	0.00		0.92
4	UDL	Z	0.228 klf	0.00		0.92
5	UDL	X	0.235 klf	0.00		1.00
5	UDL	Z	0.228 klf	0.00		1.00
6	UDL	X	0.235 klf	0.00		0.92
6	UDL	Z	0.228 klf	0.00		0.92

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	-2.13
1	1	Y	-0.98
1	1	Z	-1.25
1	2	X	-2.13
1	2	Y	0.00
1	2	Z	-1.25
1	3	X	-2.13
1	3	Y	0.00
1	3	Z	-1.25
1	4	X	-2.13
1	4	Y	0.00
1	4	Z	-1.25
1	5	X	-2.13
1	5	Y	0.00
1	5	Z	-1.25
1	6	X	-2.13
1	6	Y	0.00
1	6	Z	-1.25
1	7	X	-2.13
1	7	Y	0.00
1	7	Z	-1.25



Sheet # 33
Job # 59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	10/17/14
File Name:		www.bentley.com	Phone:	1-800-778-4277
File Name:		Pier 12_Ped_A4.rcp	Checked	
File Name:		Pier 12_Ped_A4.rcp	Date	

Line #	Bearing #	Dir	Load kips
1	8	X	-2.13
1	8	Y	0.00
1	8	Z	-1.25
1	9	X	-2.13
1	9	Y	0.98
1	9	Z	-1.25
2	1	X	-3.21
2	1	Y	-1.65
2	1	Z	-1.89
2	2	X	-3.21
2	2	Y	0.00
2	2	Z	-1.89
2	3	X	-3.21
2	3	Y	0.00
2	3	Z	-1.89
2	4	X	-3.21
2	4	Y	0.00
2	4	Z	-1.89
2	5	X	-3.21
2	5	Y	0.00
2	5	Z	-1.89
2	6	X	-3.21
2	6	Y	0.00
2	6	Z	-1.89
2	7	X	-3.21
2	7	Y	0.00
2	7	Z	-1.89
2	8	X	-3.21
2	8	Y	0.00
2	8	Z	-1.89
2	9	X	-3.21
2	9	Y	0.00
2	9	Z	-1.89
2	10	X	-3.21
2	10	Y	1.65
2	10	Z	-1.89

Loadcase ID: WS9 Name: WB -45

Multiplier = 1.000

Cap loads



Sheet # 34
Job # 59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	10/17/14
File Name:		www.bentley.com	Phone:	1-800-778-4277
File Name:		Pier 12_Ped_A4.rcp	Checked	
File Name:		Pier 12_Ped_A4.rcp	Date	

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Force	X	0.00	-12.75 kips	0.50		
UDL	Z		-0.21 klf	0.00		1.00

Column loads

Col #	Type	Dir	Mag1	y1/L	Mag2	y2/L
1	UDL	Z	-0.287 klf	0.00		1.00
1	UDL	X	-0.171 klf	0.00		1.00
2	UDL	X	-0.171 klf	0.00		0.92
2	UDL	Z	-0.287 klf	0.00		0.92
3	UDL	Z	-0.287 klf	0.00		1.00
3	UDL	X	-0.171 klf	0.00		1.00
4	UDL	X	0.171 klf	0.00		0.92
4	UDL	Z	0.287 klf	0.00		0.92
5	UDL	X	0.171 klf	0.00		1.00
5	UDL	Z	0.287 klf	0.00		1.00
6	UDL	X	0.171 klf	0.00		0.92
6	UDL	Z	0.287 klf	0.00		0.92

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	-1.62
1	1	Y	-0.75
1	1	Z	-1.36
1	2	X	-1.62
1	2	Y	0.00
1	2	Z	-1.36
1	3	X	-1.62
1	3	Y	0.00
1	3	Z	-1.36
1	4	X	-1.62
1	4	Y	0.00
1	4	Z	-1.36
1	5	X	-1.62
1	5	Y	0.00
1	5	Z	-1.36
1	6	X	-1.62
1	6	Y	0.00
1	6	Z	-1.36
1	7	X	-1.62
1	7	Y	0.00
1	7	Z	-1.36



Sheet # 35
Job # 59219

Program: LEAP® RC-PIER® V8i (SELECTseries 5) SE Client Licenses Designed CAM
Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 Date 10/17/14
www.bentley.com Phone: 1-800-778-4277 Checked
File Name: Pier 12_Ped_A4.rcp Date

Line #	Bearing #	Dir	Load kips
1	8	X	-1.62
1	8	Y	0.00
1	8	Z	-1.36
1	9	X	-1.62
1	9	Y	0.75
1	9	Z	-1.36
2	1	X	-2.45
2	1	Y	-1.26
2	1	Z	-2.06
2	2	X	-2.45
2	2	Y	0.00
2	2	Z	-2.06
2	3	X	-2.45
2	3	Y	0.00
2	3	Z	-2.06
2	4	X	-2.45
2	4	Y	0.00
2	4	Z	-2.06
2	5	X	-2.45
2	5	Y	0.00
2	5	Z	-2.06
2	6	X	-2.45
2	6	Y	0.00
2	6	Z	-2.06
2	7	X	-2.45
2	7	Y	0.00
2	7	Z	-2.06
2	8	X	-2.45
2	8	Y	0.00
2	8	Z	-2.06
2	9	X	-2.45
2	9	Y	0.00
2	9	Z	-2.06
2	10	X	-2.45
2	10	Y	1.26
2	10	Z	-2.06

Loadcase ID: WS10 Name: WB -60

Multiplier = 1.000

Cap loads



Sheet # 36
Job # 59219

Program: LEAP® RC-PIER® V8i (SELECTseries 5) SE Client Licenses Designed CAM
Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 Date 10/17/14
www.bentley.com Phone: 1-800-778-4277 Checked
File Name: Pier 12_Ped_A4.rcp Date

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Force	X	0.00	-7.50 kips	0.50		
UDL	Z		-0.26 kif	0.00		1.00

Column loads

Col #	Type	Dir	Mag1	y1/L	Mag2	y2/L
1	UDL	Z	-0.305 kif	0.00		1.00
1	UDL	X	-0.087 kif	0.00		1.00
2	UDL	X	-0.087 kif	0.00		0.92
2	UDL	Z	-0.305 kif	0.00		0.92
3	UDL	Z	-0.305 kif	0.00		1.00
3	UDL	X	-0.087 kif	0.00		1.00
4	UDL	X	0.087 kif	0.00		0.92
4	UDL	Z	0.305 kif	0.00		0.92
5	UDL	X	0.087 kif	0.00		1.00
5	UDL	Z	0.305 kif	0.00		1.00
6	UDL	X	0.087 kif	0.00		0.92
6	UDL	Z	0.305 kif	0.00		0.92

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	-0.68
1	1	Y	-0.32
1	1	Z	-1.31
1	2	X	-0.68
1	2	Y	0.00
1	2	Z	-1.31
1	3	X	-0.68
1	3	Y	0.00
1	3	Z	-1.31
1	4	X	-0.68
1	4	Y	0.00
1	4	Z	-1.31
1	5	X	-0.68
1	5	Y	0.00
1	5	Z	-1.31
1	6	X	-0.68
1	6	Y	0.00
1	6	Z	-1.31
1	7	X	-0.68
1	7	Y	0.00
1	7	Z	-1.31



Sheet # 37
Job # 59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	10/17/14
File Name:		www.bentley.com	Phone: 1-800-778-4277	Checked
			Date	

Line #	Bearing #	Dir	Load kips
1	8	X	-0.68
1	8	Y	0.00
1	8	Z	-1.31
1	9	X	-0.68
1	9	Y	0.32
1	9	Z	-1.31
2	1	X	-1.03
2	1	Y	-0.53
2	1	Z	-1.97
2	2	X	-1.03
2	2	Y	0.00
2	2	Z	-1.97
2	3	X	-1.03
2	3	Y	0.00
2	3	Z	-1.97
2	4	X	-1.03
2	4	Y	0.00
2	4	Z	-1.97
2	5	X	-1.03
2	5	Y	0.00
2	5	Z	-1.97
2	6	X	-1.03
2	6	Y	0.00
2	6	Z	-1.97
2	7	X	-1.03
2	7	Y	0.00
2	7	Z	-1.97
2	8	X	-1.03
2	8	Y	0.00
2	8	Z	-1.97
2	9	X	-1.03
2	9	Y	0.00
2	9	Z	-1.97
2	10	X	-1.03
2	10	Y	0.53
2	10	Z	-1.97

Loadcase ID: WS11 Name: WB -75

Multiplier = 1.000

Cap loads



Sheet # 38
Job # 59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	10/17/14
File Name:		www.bentley.com	Phone: 1-800-778-4277	Checked
			Date	

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Force	X	0.00	-0.42 kips	0.50		
UDL	Z		-0.28 kif	0.00		1.00

Column loads

Col #	Type	Dir	Mag1	y1/L	Mag2	y2/L
1	UDL	Z	-0.278 kif	0.00		1.00
1	UDL	X	-0.004 kif	0.00		1.00
2	UDL	X	-0.004 kif	0.00		0.92
2	UDL	Z	-0.278 kif	0.00		0.92
3	UDL	Z	-0.278 kif	0.00		1.00
3	UDL	X	-0.004 kif	0.00		1.00
4	UDL	X	0.004 kif	0.00		0.92
4	UDL	Z	0.278 kif	0.00		0.92
5	UDL	X	0.004 kif	0.00		1.00
5	UDL	Z	0.278 kif	0.00		1.00
6	UDL	X	0.004 kif	0.00		0.92
6	UDL	Z	0.278 kif	0.00		0.92

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	-0.31
1	1	Y	-0.14
1	1	Z	-1.39
1	2	X	-0.31
1	2	Y	0.00
1	2	Z	-1.39
1	3	X	-0.31
1	3	Y	0.00
1	3	Z	-1.39
1	4	X	-0.31
1	4	Y	0.00
1	4	Z	-1.39
1	5	X	-0.31
1	5	Y	0.00
1	5	Z	-1.39
1	6	X	-0.31
1	6	Y	0.00
1	6	Z	-1.39
1	7	X	-0.31
1	7	Y	0.00
1	7	Z	-1.39



Sheet # 39
Job # 59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	10/17/14
File Name:		www.bentley.com	Phone: 1-800-778-4277	Checked
			Date	

Line #	Bearing #	Dir	Load kips
1	8	X	-0.31
1	8	Y	0.00
1	8	Z	-1.39
1	9	X	-0.31
1	9	Y	0.14
1	9	Z	-1.39
2	1	X	-0.46
2	1	Y	-0.24
2	1	Z	-2.10
2	2	X	-0.46
2	2	Y	0.00
2	2	Z	-2.10
2	3	X	-0.46
2	3	Y	0.00
2	3	Z	-2.10
2	4	X	-0.46
2	4	Y	0.00
2	4	Z	-2.10
2	5	X	-0.46
2	5	Y	0.00
2	5	Z	-2.10
2	6	X	-0.46
2	6	Y	0.00
2	6	Z	-2.10
2	7	X	-0.46
2	7	Y	0.00
2	7	Z	-2.10
2	8	X	-0.46
2	8	Y	0.00
2	8	Z	-2.10
2	9	X	-0.46
2	9	Y	0.00
2	9	Z	-2.10
2	10	X	-0.46
2	10	Y	0.24
2	10	Z	-2.10

Loadcase ID: WS12 Name: EB 75

Multiplier = 1.000

Cap loads



Sheet # 40
Job # 59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	10/17/14
File Name:		www.bentley.com	Phone: 1-800-778-4277	Checked
			Date	

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Force	X	0.00	-30.69 kips	0.50		
UDL	Z		0.21 kf	0.00		1.00

Column loads

Col #	Type	Dir	Mag1	y1/L	Mag2	y2/L
6	UDL	X	-0.162 kf	0.00		1.00
6	UDL	Z	0.291 kf	0.00		1.00
5	UDL	X	-0.162 kf	0.00		0.92
5	UDL	Z	0.291 kf	0.00		0.92
4	UDL	X	-0.162 kf	0.00		1.00
4	UDL	Z	0.291 kf	0.00		1.00
3	UDL	X	-0.162 kf	0.00		0.92
3	UDL	Z	0.291 kf	0.00		0.92
2	UDL	X	-0.162 kf	0.00		1.00
2	UDL	Z	0.291 kf	0.00		1.00
1	UDL	X	-0.162 kf	0.00		0.92
1	UDL	Z	0.291 kf	0.00		0.92
7	UDL	X	0.162 kf	0.00		1.00
7	UDL	Z	-0.291 kf	0.00		1.00
8	UDL	X	0.162 kf	0.00		0.92
8	UDL	Z	-0.291 kf	0.00		0.92
9	UDL	X	0.162 kf	0.00		1.00
9	UDL	Z	-0.291 kf	0.00		1.00
10	UDL	X	0.162 kf	0.00		0.92
10	UDL	Z	-0.291 kf	0.00		0.92
11	UDL	X	0.162 kf	0.00		1.00
11	UDL	Z	-0.291 kf	0.00		1.00
12	UDL	X	0.162 kf	0.00		0.92
12	UDL	Z	-0.291 kf	0.00		0.92

Bearing loads

Line #	Bearing #	Dir	Load kips
1	10	Z	1.16
1	10	Y	-0.53
1	10	X	-1.00
1	11	Z	1.16
1	11	Y	0.00
1	11	X	-1.00
1	12	Z	1.16
1	12	Y	0.00
1	12	X	-1.00



Sheet # 41
Job # 59219

Program: LEAP® RC-PIER® V8i (SELECTseries 5) SE Client Licenses Designed CAM
Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 Date 10/17/14
www.bentley.com Phone: 1-800-778-4277 Checked
File Name: Pier 12_Ped_A4.rcp Date

Line #	Bearing #	Dir	Load kips
1	13	Z	1.16
1	13	Y	0.00
1	13	X	-1.00
1	14	Z	1.16
1	14	Y	0.00
1	14	X	-1.00
1	15	X	-1.00
1	15	Y	0.00
1	15	Z	1.16
1	16	Z	1.16
1	16	Y	0.00
1	16	X	-1.00
1	17	Z	1.16
1	17	Y	0.00
1	17	X	-1.00
1	18	Z	1.16
1	18	Y	0.00
1	18	X	-1.00
1	19	Z	1.16
1	19	Y	0.00
1	19	X	-1.00
1	20	X	-1.00
1	20	Z	1.16
1	20	Y	0.00
1	21	Y	0.53
1	21	Z	1.16
1	21	X	-1.00
2	11	Z	1.48
2	11	Y	-0.62
2	11	X	-1.27
2	12	Z	1.48
2	12	Y	0.00
2	12	X	-1.27
2	13	Z	1.48
2	13	Y	0.00
2	13	X	-1.27
2	14	Z	1.48
2	14	Y	0.00
2	14	X	-1.27
2	15	Z	1.48
2	15	Y	0.00
2	15	X	-1.27
2	16	X	-1.27
2	16	Y	0.00
2	16	Z	1.48
2	17	Z	1.48
2	17	Y	0.00
2	17	X	-1.27
2	18	Z	1.48

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 42
Job # 59219

Program: LEAP® RC-PIER® V8i (SELECTseries 5) SE Client Licenses Designed CAM
Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 Date 10/17/14
www.bentley.com Phone: 1-800-778-4277 Checked
File Name: Pier 12_Ped_A4.rcp Date

Line #	Bearing #	Dir	Load kips
2	18	Y	0.00
2	18	X	-1.27
2	19	Z	1.48
2	19	Y	0.00
2	19	X	-1.27
2	20	Z	1.48
2	20	Y	0.00
2	20	X	-1.27
2	21	Z	1.48
2	21	Y	0.62
2	21	X	-1.27

Loadcase ID: WS13 Name: EB 60
Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Force	X	0.00	-36.30 kips	0.50		
UDL	Z		0.14 kf	0.00		1.00

Column loads

Col #	Type	Dir	Mag1	y1/L	Mag2	y2/L
6	UDL	X	-0.230 kf	0.00		1.00
6	UDL	Z	0.237 kf	0.00		1.00
5	UDL	X	-0.230 kf	0.00		0.92
5	UDL	Z	0.237 kf	0.00		0.92
4	UDL	X	-0.230 kf	0.00		1.00
4	UDL	Z	0.237 kf	0.00		1.00
3	UDL	X	-0.230 kf	0.00		0.92
3	UDL	Z	0.237 kf	0.00		0.92
2	UDL	X	-0.230 kf	0.00		1.00
2	UDL	Z	0.237 kf	0.00		1.00
1	UDL	X	-0.230 kf	0.00		0.92
1	UDL	Z	0.237 kf	0.00		0.92
7	UDL	X	0.230 kf	0.00		1.00
7	UDL	Z	-0.237 kf	0.00		1.00

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 43
Job # 59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	10/17/14
File Name:		www.bentley.com	Phone:	1-800-778-4277
File Name:		Pier 12_Ped_A4.rcp	Checked	Date

Col #	Type	Dir	Mag1	y1/L	Mag2	y2/L
8	UDL	X	0.230 klf	0.00		0.92
8	UDL	Z	-0.237 klf	0.00		0.92
9	UDL	X	0.230 klf	0.00		1.00
9	UDL	Z	-0.237 klf	0.00		1.00
10	UDL	X	0.230 klf	0.00		0.92
10	UDL	Z	-0.237 klf	0.00		0.92
11	UDL	X	0.230 klf	0.00		1.00
11	UDL	Z	-0.237 klf	0.00		1.00
12	UDL	X	0.230 klf	0.00		0.92
12	UDL	Z	-0.237 klf	0.00		0.92

Bearing loads

Line #	Bearing #	Dir	Load kips
1	10	Z	0.88
1	10	Y	-0.69
1	10	X	-1.31
1	11	Z	0.88
1	11	Y	0.00
1	11	X	-1.31
1	12	Z	0.88
1	12	Y	0.00
1	12	X	-1.31
1	13	Z	0.88
1	13	Y	0.00
1	13	X	-1.31
1	14	Z	0.88
1	14	Y	0.00
1	14	X	-1.31
1	15	X	-1.31
1	15	Y	0.00
1	15	Z	0.88
1	16	Z	0.88
1	16	Y	0.00
1	16	X	-1.31
1	17	Z	0.88
1	17	Y	0.00
1	17	X	-1.31
1	18	Z	0.88
1	18	Y	0.00
1	18	X	-1.31
1	19	Z	0.88
1	19	Y	0.00
1	19	X	-1.31
1	20	X	-1.31
1	20	Z	0.88
1	20	Y	0.00



Sheet # 44
Job # 59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	10/17/14
File Name:		www.bentley.com	Phone:	1-800-778-4277
File Name:		Pier 12_Ped_A4.rcp	Checked	Date

Line #	Bearing #	Dir	Load kips
1	21	Y	0.69
1	21	Z	0.88
1	21	X	-1.31
2	11	Z	1.13
2	11	Y	-0.81
2	11	X	-1.68
2	12	Z	1.13
2	12	Y	0.00
2	12	X	-1.68
2	13	Z	1.13
2	13	Y	0.00
2	13	X	-1.68
2	14	Z	1.13
2	14	Y	0.00
2	14	X	-1.68
2	15	Z	1.13
2	15	Y	0.00
2	15	X	-1.68
2	16	X	-1.68
2	16	Y	0.00
2	16	Z	1.13
2	17	Z	1.13
2	17	Y	0.00
2	17	X	-1.68
2	18	Z	1.13
2	18	Y	0.00
2	18	X	-1.68
2	19	Z	1.13
2	19	Y	0.00
2	19	X	-1.68
2	20	Z	1.13
2	20	Y	0.00
2	20	X	-1.68
2	21	Z	1.13
2	21	Y	0.81
2	21	X	-1.68

Loadcase ID: WS14 Name: EB 45

Multiplier = 1.000

Cap loads



Sheet # 45
Job # 59219

Program: LEAP® RC-PIER® V8i (SELECTseries 5) SE Client Licenses Designed CAM
Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 Date 10/17/14
www.bentley.com Phone: 1-800-778-4277 Checked
File Name: Pier 12_Ped_A4.rcp Date

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Force	X	0.00	-32.36 kips	0.50		
UDL	Z		0.07 klf	0.00		1.00

Column loads

Col #	Type	Dir	Mag1	y1/L	Mag2	y2/L
6	UDL	X	-0.261 klf	0.00		1.00
6	UDL	Z	0.156 klf	0.00		1.00
5	UDL	X	-0.261 klf	0.00		0.92
5	UDL	Z	0.156 klf	0.00		0.92
4	UDL	X	-0.261 klf	0.00		1.00
4	UDL	Z	0.156 klf	0.00		1.00
3	UDL	X	-0.261 klf	0.00		0.92
3	UDL	Z	0.156 klf	0.00		0.92
2	UDL	X	-0.261 klf	0.00		1.00
2	UDL	Z	0.156 klf	0.00		1.00
1	UDL	X	-0.261 klf	0.00		0.92
1	UDL	Z	0.156 klf	0.00		0.92
7	UDL	X	0.261 klf	0.00		1.00
7	UDL	Z	-0.156 klf	0.00		1.00
8	UDL	X	0.261 klf	0.00		0.92
8	UDL	Z	-0.156 klf	0.00		0.92
9	UDL	X	0.261 klf	0.00		1.00
9	UDL	Z	-0.156 klf	0.00		1.00
10	UDL	X	0.261 klf	0.00		0.92
10	UDL	Z	-0.156 klf	0.00		0.92
11	UDL	X	0.261 klf	0.00		1.00
11	UDL	Z	-0.156 klf	0.00		1.00
12	UDL	X	0.261 klf	0.00		0.92
12	UDL	Z	-0.156 klf	0.00		0.92

Bearing loads

Line #	Bearing #	Dir	Load kips
1	10	Z	0.46
1	10	Y	-1.18
1	10	X	-2.23
1	11	Z	0.46
1	11	Y	0.00
1	11	X	-2.23
1	12	Z	0.46
1	12	Y	0.00
1	12	X	-2.23



Sheet # 46
Job # 59219

Program: LEAP® RC-PIER® V8i (SELECTseries 5) SE Client Licenses Designed CAM
Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 Date 10/17/14
www.bentley.com Phone: 1-800-778-4277 Checked
File Name: Pier 12_Ped_A4.rcp Date

Line #	Bearing #	Dir	Load kips
1	13	Z	0.46
1	13	Y	0.00
1	13	X	-2.23
1	14	Z	0.46
1	14	Y	0.00
1	14	X	-2.23
1	15	X	-2.23
1	15	Y	0.00
1	15	Z	0.46
1	16	Z	0.46
1	16	Y	0.00
1	16	X	-2.23
1	17	Z	0.46
1	17	Y	0.00
1	17	X	-2.23
1	18	Z	0.46
1	18	Y	0.00
1	18	X	-2.23
1	19	Z	0.46
1	19	Y	0.00
1	19	X	-2.23
1	20	X	-2.23
1	20	Z	0.46
1	20	Y	0.00
1	21	Y	1.18
1	21	Z	0.46
1	21	X	-2.23
2	11	Z	0.59
2	11	Y	-1.38
2	11	X	-2.85
2	12	Z	0.59
2	12	Y	0.00
2	12	X	-2.85
2	13	Z	0.59
2	13	Y	0.00
2	13	X	-2.85
2	14	Z	0.59
2	14	Y	0.00
2	14	X	-2.85
2	15	Z	0.59
2	15	Y	0.00
2	15	X	-2.85
2	16	X	-2.85
2	16	Y	0.00
2	16	Z	0.59
2	17	Z	0.59
2	17	Y	0.00
2	17	X	-2.85
2	18	Z	0.59



Sheet # 47
Job # 59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	10/17/14
File Name:		www.bentley.com	Phone:	1-800-778-4277
File Name:		Pier 12_Ped_A4.rcp	Checked	
			Date	

Line #	Bearing #	Dir	Load kips
	18	Y	0.00
2	18	X	-2.85
2	19	Z	0.59
2	19	Y	0.00
2	19	X	-2.85
2	20	Z	0.59
2	20	Y	0.00
2	20	X	-2.85
2	21	Z	0.59
2	21	Y	1.38
2	21	X	-2.85

Loadcase ID: WS15 Name: EB 30
Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Force	X	0.00	-19.91 kips	0.50		
UDL	Z		0.02 kif	0.00		1.00

Column loads

Col #	Type	Dir	Mag1	y1/L	Mag2	y2/L
6	UDL	X	-0.248 kif	0.00		1.00
6	UDL	Z	0.070 kif	0.00		1.00
5	UDL	X	-0.248 kif	0.00		0.92
5	UDL	Z	0.070 kif	0.00		0.92
4	UDL	X	-0.248 kif	0.00		1.00
4	UDL	Z	0.070 kif	0.00		1.00
3	UDL	X	-0.248 kif	0.00		0.92
3	UDL	Z	0.070 kif	0.00		0.92
2	UDL	X	-0.248 kif	0.00		1.00
2	UDL	Z	0.070 kif	0.00		1.00
1	UDL	X	-0.248 kif	0.00		0.92
1	UDL	Z	0.070 kif	0.00		0.92
7	UDL	X	0.248 kif	0.00		1.00
7	UDL	Z	-0.070 kif	0.00		1.00



Sheet # 48
Job # 59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	10/17/14
File Name:		www.bentley.com	Phone:	1-800-778-4277
File Name:		Pier 12_Ped_A4.rcp	Checked	
			Date	

Col #	Type	Dir	Mag1	y1/L	Mag2	y2/L
8	UDL	X	0.248 kif	0.00		0.92
8	UDL	Z	-0.070 kif	0.00		0.92
9	UDL	X	0.248 kif	0.00		1.00
9	UDL	Z	-0.070 kif	0.00		1.00
10	UDL	X	0.248 kif	0.00		0.92
10	UDL	Z	-0.070 kif	0.00		0.92
11	UDL	X	0.248 kif	0.00		1.00
11	UDL	Z	-0.070 kif	0.00		1.00
12	UDL	X	0.248 kif	0.00		0.92
12	UDL	Z	-0.070 kif	0.00		0.92

Bearing loads

Line #	Bearing #	Dir	Load kips
1	10	Z	0.10
1	10	Y	-1.40
1	10	X	-2.65
1	11	Z	0.10
1	11	Y	0.00
1	11	X	-2.65
1	12	Z	0.10
1	12	Y	0.00
1	12	X	-2.65
1	13	Z	0.10
1	13	Y	0.00
1	13	X	-2.65
1	14	Z	0.10
1	14	Y	0.00
1	14	X	-2.65
1	15	X	-2.65
1	15	Y	0.00
1	15	Z	0.10
1	16	Z	0.10
1	16	Y	0.00
1	16	X	-2.65
1	17	Z	0.10
1	17	Y	0.00
1	17	X	-2.65
1	18	Z	0.10
1	18	Y	0.00
1	18	X	-2.65
1	19	Z	0.10
1	19	Y	0.00
1	19	X	-2.65
1	20	X	-2.65
1	20	Z	0.10
1	20	Y	0.00



Sheet # 49
Job # 59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	10/17/14
File Name:		www.bentley.com	Phone:	1-800-778-4277
File Name:		Pier 12_Ped_A4.rcp	Checked	
File Name:		Pier 12_Ped_A4.rcp	Date	

Line #	Bearing #	Dir	Load kips
1	21	Y	1.40
1	21	Z	0.10
1	21	X	-2.65
2	11	Z	0.13
2	11	Y	-1.64
2	11	X	-3.39
2	12	Z	0.13
2	12	Y	0.00
2	12	X	-3.39
2	13	Z	0.13
2	13	Y	0.00
2	13	X	-3.39
2	14	Z	0.13
2	14	Y	0.00
2	14	X	-3.39
2	15	Z	0.13
2	15	Y	0.00
2	15	X	-3.39
2	16	X	-3.39
2	16	Y	0.00
2	16	Z	0.13
2	17	Z	0.13
2	17	Y	0.00
2	17	X	-3.39
2	18	Z	0.13
2	18	Y	0.00
2	18	X	-3.39
2	19	Z	0.13
2	19	Y	0.00
2	19	X	-3.39
2	20	Z	0.13
2	20	Y	0.00
2	20	X	-3.39
2	21	Z	0.13
2	21	Y	1.64
2	21	X	-3.39

Loadcase ID: WS16 Name: EB 15

Multiplier = 1.000

Cap loads

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 50
Job # 59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	10/17/14
File Name:		www.bentley.com	Phone:	1-800-778-4277
File Name:		Pier 12_Ped_A4.rcp	Checked	
File Name:		Pier 12_Ped_A4.rcp	Date	

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Force	X	0.00	-2.30 kips	0.50		
UDL	Z		0.00 kif	0.00		1.00

Column loads

Col #	Type	Dir	Mag1	y1/L	Mag2	y2/L
6	UDL	X	-0.194 kif	0.00		1.00
6	UDL	Z	0.003 kif	0.00		1.00
5	UDL	X	-0.194 kif	0.00		0.92
5	UDL	Z	0.003 kif	0.00		0.92
4	UDL	X	-0.194 kif	0.00		1.00
4	UDL	Z	0.003 kif	0.00		1.00
3	UDL	X	-0.194 kif	0.00		0.92
3	UDL	Z	0.003 kif	0.00		0.92
2	UDL	X	-0.194 kif	0.00		1.00
2	UDL	Z	0.003 kif	0.00		1.00
1	UDL	X	-0.194 kif	0.00		0.92
1	UDL	Z	0.003 kif	0.00		0.92
7	UDL	X	0.194 kif	0.00		1.00
7	UDL	Z	-0.003 kif	0.00		1.00
8	UDL	X	0.194 kif	0.00		0.92
8	UDL	Z	-0.003 kif	0.00		0.92
9	UDL	X	0.194 kif	0.00		1.00
9	UDL	Z	-0.003 kif	0.00		1.00
10	UDL	X	0.194 kif	0.00		0.92
10	UDL	Z	-0.003 kif	0.00		0.92
11	UDL	X	0.194 kif	0.00		1.00
11	UDL	Z	-0.003 kif	0.00		1.00
12	UDL	X	0.194 kif	0.00		0.92
12	UDL	Z	-0.003 kif	0.00		0.92

Bearing loads

Line #	Bearing #	Dir	Load kips
1	10	Z	-0.31
1	10	Y	-1.45
1	10	X	-2.74
1	11	Z	-0.31
1	11	Y	0.00
1	11	X	-2.74
1	12	Z	-0.31
1	12	Y	0.00
1	12	X	-2.74

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 51
Job # 59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	10/17/14
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier 12_Ped_A4.rcp	Checked	Date	

Line #	Bearing #	Dir	Load kips
1	13	Z	-0.31
1	13	Y	0.00
1	13	X	-2.74
1	14	Z	-0.31
1	14	Y	0.00
1	14	X	-2.74
1	15	X	-2.74
1	15	Y	0.00
1	15	Z	-0.31
1	16	Z	-0.31
1	16	Y	0.00
1	16	X	-2.74
1	17	Z	-0.31
1	17	Y	0.00
1	17	X	-2.74
1	18	Z	-0.31
1	18	Y	0.00
1	18	X	-2.74
1	19	Z	-0.31
1	19	Y	0.00
1	19	X	-2.74
1	20	X	-2.74
1	20	Z	-0.31
1	20	Y	0.00
1	21	Y	1.45
1	21	Z	-0.31
1	21	X	-2.74
2	11	Z	-0.39
2	11	Y	-1.70
2	11	X	-3.50
2	12	Z	-0.39
2	12	Y	0.00
2	12	X	-3.50
2	13	Z	-0.39
2	13	Y	0.00
2	13	X	-3.50
2	14	Z	-0.39
2	14	Y	0.00
2	14	X	-3.50
2	15	Z	-0.39
2	15	Y	0.00
2	15	X	-3.50
2	16	X	-3.50
2	16	Y	0.00
2	16	Z	-0.39
2	17	Z	-0.39
2	17	Y	0.00
2	17	X	-3.50
2	18	Z	-0.39

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 52
Job # 59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	10/17/14
		www.bentley.com	Phone:	1-800-778-4277
File Name:	Pier 12_Ped_A4.rcp	Checked	Date	

Line #	Bearing #	Dir	Load kips
2	18	Y	0.00
2	18	X	-3.50
2	19	Z	-0.39
2	19	Y	0.00
2	19	X	-3.50
2	20	Z	-0.39
2	20	Y	0.00
2	20	X	-3.50
2	21	Z	-0.39
2	21	Y	1.70
2	21	X	-3.50

Loadcase ID: WS17 Name: EB 0
Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Force	X	0.00	-18.10 kips	0.50		
UDL	Z		-0.02 kif	0.00		1.00

Column loads

Col #	Type	Dir	Mag1	y1/L	Mag2	y2/L
6	UDL	X	-0.244 kif	0.00		1.00
6	UDL	Z	-0.061 kif	0.00		1.00
5	UDL	X	-0.244 kif	0.00		0.92
5	UDL	Z	-0.061 kif	0.00		0.92
4	UDL	X	-0.244 kif	0.00		1.00
4	UDL	Z	-0.061 kif	0.00		1.00
3	UDL	X	-0.244 kif	0.00		0.92
3	UDL	Z	-0.061 kif	0.00		0.92
2	UDL	X	-0.244 kif	0.00		1.00
2	UDL	Z	-0.061 kif	0.00		1.00
1	UDL	X	-0.244 kif	0.00		0.92
1	UDL	Z	-0.061 kif	0.00		0.92
7	UDL	X	0.244 kif	0.00		1.00
7	UDL	Z	0.061 kif	0.00		1.00

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 53
Job # 59219

Program: LEAP® RC-PIER® V8i (SELECTseries 5) SE Client Licenses Designed CAM
Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 Date 10/17/14
www.bentley.com Phone: 1-800-778-4277 Checked
File Name: Pier 12_Ped_A4.rcp Date

Col #	Type	Dir	Mag1	y1/L	Mag2	y2/L
8	UDL	X	0.244 klf	0.00		0.92
8	UDL	Z	0.061 klf	0.00		0.92
9	UDL	X	0.244 klf	0.00		1.00
9	UDL	Z	0.061 klf	0.00		1.00
10	UDL	X	0.244 klf	0.00		0.92
10	UDL	Z	0.061 klf	0.00		0.92
11	UDL	X	0.244 klf	0.00		1.00
11	UDL	Z	0.061 klf	0.00		1.00
12	UDL	X	0.244 klf	0.00		0.92
12	UDL	Z	0.061 klf	0.00		0.92

Bearing loads

Line #	Bearing #	Dir	Load kips
1	10	Z	-0.76
1	10	Y	-27.32
1	10	X	-3.01
1	11	Z	-0.76
1	11	Y	11.93
1	11	X	-3.01
1	12	Z	-0.76
1	12	Y	11.93
1	12	X	-3.01
1	13	Z	-0.76
1	13	Y	11.93
1	13	X	-3.01
1	14	Z	-0.76
1	14	Y	11.93
1	14	X	-3.01
1	15	X	-3.01
1	15	Y	11.93
1	15	Z	-0.76
1	16	Z	-0.76
1	16	Y	11.93
1	16	X	-3.01
1	17	Z	-0.76
1	17	Y	11.93
1	17	X	-3.01
1	18	Z	-0.76
1	18	Y	11.93
1	18	X	-3.01
1	19	Z	-0.76
1	19	Y	11.93
1	19	X	-3.01
1	20	X	-3.01
1	20	Z	-0.76
1	20	Y	11.93



Sheet # 54
Job # 59219

Program: LEAP® RC-PIER® V8i (SELECTseries 5) SE Client Licenses Designed CAM
Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 Date 10/17/14
www.bentley.com Phone: 1-800-778-4277 Checked
File Name: Pier 12_Ped_A4.rcp Date

Line #	Bearing #	Dir	Load kips
1	21	Y	51.19
1	21	Z	-0.76
1	21	X	-3.01
2	11	Z	-0.97
2	11	Y	-30.77
2	11	X	-3.85
2	12	Z	-0.97
2	12	Y	15.27
2	12	X	-3.85
2	13	Z	-0.97
2	13	Y	15.27
2	13	X	-3.85
2	14	Z	-0.97
2	14	Y	15.27
2	14	X	-3.85
2	15	Z	-0.97
2	15	Y	15.27
2	15	X	-3.85
2	16	X	-3.85
2	16	Y	15.27
2	16	Z	-0.97
2	17	Z	-0.97
2	17	Y	15.27
2	17	X	-3.85
2	18	Z	-0.97
2	18	Y	15.27
2	18	X	-3.85
2	19	Z	-0.97
2	19	Y	15.27
2	19	X	-3.85
2	20	Z	-0.97
2	20	Y	15.27
2	20	X	-3.85
2	21	Z	-0.97
2	21	Y	61.31
2	21	X	-3.85

Loadcase ID: WS18 Name: EB -15

Multiplier = 1.000

Cap loads



Sheet # 55
Job # 59219

Program: LEAP® RC-PIER® V8i (SELECTseries 5) SE Client Licenses Designed CAM
Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 Date 10/17/14
www.bentley.com Phone: 1-800-778-4277 Checked
File Name: Pier 12_Ped_A4.rcp Date

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Force	X	0.00	-31.34 kips	0.50		
UDL	Z		-0.07 klf	0.00		1.00

Column loads

Col #	Type	Dir	Mag1	y1/L	Mag2	y2/L
6	UDL	X	-0.262 klf	0.00		1.00
6	UDL	Z	-0.146 klf	0.00		1.00
5	UDL	X	-0.262 klf	0.00		0.92
5	UDL	Z	-0.146 klf	0.00		0.92
4	UDL	X	-0.262 klf	0.00		1.00
4	UDL	Z	-0.146 klf	0.00		1.00
3	UDL	X	-0.262 klf	0.00		0.92
3	UDL	Z	-0.146 klf	0.00		0.92
2	UDL	X	-0.262 klf	0.00		1.00
2	UDL	Z	-0.146 klf	0.00		1.00
1	UDL	X	-0.262 klf	0.00		0.92
1	UDL	Z	-0.146 klf	0.00		0.92
7	UDL	X	0.262 klf	0.00		1.00
7	UDL	Z	0.146 klf	0.00		1.00
8	UDL	X	0.262 klf	0.00		0.92
8	UDL	Z	0.146 klf	0.00		0.92
9	UDL	X	0.262 klf	0.00		1.00
9	UDL	Z	0.146 klf	0.00		1.00
10	UDL	X	0.262 klf	0.00		0.92
10	UDL	Z	0.146 klf	0.00		0.92
11	UDL	X	0.262 klf	0.00		1.00
11	UDL	Z	0.146 klf	0.00		1.00
12	UDL	X	0.262 klf	0.00		0.92
12	UDL	Z	0.146 klf	0.00		0.92

Bearing loads

Line #	Bearing #	Dir	Load kips
1	10	Z	-1.03
1	10	Y	-1.35
1	10	X	-2.55
1	11	Z	-1.03
1	11	Y	0.00
1	11	X	-2.55
1	12	Z	-1.03
1	12	Y	0.00
1	12	X	-2.55



Sheet # 56
Job # 59219

Program: LEAP® RC-PIER® V8i (SELECTseries 5) SE Client Licenses Designed CAM
Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 Date 10/17/14
www.bentley.com Phone: 1-800-778-4277 Checked
File Name: Pier 12_Ped_A4.rcp Date

Line #	Bearing #	Dir	Load kips
1	13	Z	-1.03
1	13	Y	0.00
1	13	X	-2.55
1	14	Z	-1.03
1	14	Y	0.00
1	14	X	-2.55
1	15	X	-2.55
1	15	Y	0.00
1	15	Z	-1.03
1	16	Z	-1.03
1	16	Y	0.00
1	16	X	-2.55
1	17	Z	-1.03
1	17	Y	0.00
1	17	X	-2.55
1	18	Z	-1.03
1	18	Y	0.00
1	18	X	-2.55
1	19	Z	-1.03
1	19	Y	0.00
1	19	X	-2.55
1	20	X	-2.55
1	20	Z	-1.03
1	20	Y	0.00
1	21	Y	1.35
1	21	Z	-1.03
1	21	X	-2.55
2	11	Z	-1.32
2	11	Y	-1.58
2	11	X	-3.27
2	12	Z	-1.32
2	12	Y	0.00
2	12	X	-3.27
2	13	Z	-1.32
2	13	Y	0.00
2	13	X	-3.27
2	14	Z	-1.32
2	14	Y	0.00
2	14	X	-3.27
2	15	Z	-1.32
2	15	Y	0.00
2	15	X	-3.27
2	16	X	-3.27
2	16	Y	0.00
2	16	Z	-1.32
2	17	Z	-1.32
2	17	Y	0.00
2	17	X	-3.27
2	18	Z	-1.32



Sheet # 57
Job # 59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	10/17/14
File Name:		www.bentley.com	Phone:	1-800-778-4277
File Name:		Pier 12_Ped_A4.rcp	Checked	
			Date	

Line #	Bearing #	Dir	Load kips
	18	Y	0.00
2	18	X	-3.27
2	19	Z	-1.32
2	19	Y	0.00
2	19	X	-3.27
2	20	Z	-1.32
2	20	Y	0.00
2	20	X	-3.27
2	21	Z	-1.32
2	21	Y	1.58
2	21	X	-3.27

Loadcase ID: WS19 Name: EB -30
Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Force	X	0.00	-36.34 kips	0.50		
UDL	Z		-0.14 kif	0.00		1.00

Column loads

Col #	Type	Dir	Mag1	y1/L	Mag2	y2/L
6	UDL	X	-0.235 kif	0.00		1.00
6	UDL	Z	-0.228 kif	0.00		1.00
5	UDL	X	-0.235 kif	0.00		0.92
5	UDL	Z	-0.228 kif	0.00		0.92
4	UDL	X	-0.235 kif	0.00		1.00
4	UDL	Z	-0.228 kif	0.00		1.00
3	UDL	X	-0.235 kif	0.00		0.92
3	UDL	Z	-0.228 kif	0.00		0.92
2	UDL	X	-0.235 kif	0.00		1.00
2	UDL	Z	-0.228 kif	0.00		1.00
1	UDL	X	-0.235 kif	0.00		0.92
1	UDL	Z	-0.228 kif	0.00		0.92
7	UDL	X	0.235 kif	0.00		1.00
7	UDL	Z	0.228 kif	0.00		1.00



Sheet # 58
Job # 59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	10/17/14
File Name:		www.bentley.com	Phone:	1-800-778-4277
File Name:		Pier 12_Ped_A4.rcp	Checked	
			Date	

Col #	Type	Dir	Mag1	y1/L	Mag2	y2/L
8	UDL	X	0.235 kif	0.00		0.92
8	UDL	Z	0.228 kif	0.00		0.92
9	UDL	X	0.235 kif	0.00		1.00
9	UDL	Z	0.228 kif	0.00		1.00
10	UDL	X	0.235 kif	0.00		0.92
10	UDL	Z	0.228 kif	0.00		0.92
11	UDL	X	0.235 kif	0.00		1.00
11	UDL	Z	0.228 kif	0.00		1.00
12	UDL	X	0.235 kif	0.00		0.92
12	UDL	Z	0.228 kif	0.00		0.92

Bearing loads

Line #	Bearing #	Dir	Load kips
1	10	Z	-1.34
1	10	Y	-1.21
1	10	X	-2.28
1	11	Z	-1.34
1	11	Y	0.00
1	11	X	-2.28
1	12	Z	-1.34
1	12	Y	0.00
1	12	X	-2.28
1	13	Z	-1.34
1	13	Y	0.00
1	13	X	-2.28
1	14	Z	-1.34
1	14	Y	0.00
1	14	X	-2.28
1	15	X	-2.28
1	15	Y	0.00
1	15	Z	-1.34
1	16	Z	-1.34
1	16	Y	0.00
1	16	X	-2.28
1	17	Z	-1.34
1	17	Y	0.00
1	17	X	-2.28
1	18	Z	-1.34
1	18	Y	0.00
1	18	X	-2.28
1	19	Z	-1.34
1	19	Y	0.00
1	19	X	-2.28
1	20	X	-2.28
1	20	Z	-1.34
1	20	Y	0.00



Sheet # 59
Job # 59219

Program: LEAP® RC-PIER® V8i (SELECTseries 5) SE Client Licenses Designed CAM
Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 Date 10/17/14
www.bentley.com Phone: 1-800-778-4277 Checked
File Name: Pier 12_Ped_A4.rcp Date

Line #	Bearing #	Dir	Load kips
1	21	Y	1.21
1	21	Z	-1.34
1	21	X	-2.28
2	11	Z	-1.72
2	11	Y	-1.41
2	11	X	-2.92
2	12	Z	-1.72
2	12	Y	0.00
2	12	X	-2.92
2	13	Z	-1.72
2	13	Y	0.00
2	13	X	-2.92
2	14	Z	-1.72
2	14	Y	0.00
2	14	X	-2.92
2	15	Z	-1.72
2	15	Y	0.00
2	15	X	-2.92
2	16	X	-2.92
2	16	Y	0.00
2	16	Z	-1.72
2	17	Z	-1.72
2	17	Y	0.00
2	17	X	-2.92
2	18	Z	-1.72
2	18	Y	0.00
2	18	X	-2.92
2	19	Z	-1.72
2	19	Y	0.00
2	19	X	-2.92
2	20	Z	-1.72
2	20	Y	0.00
2	20	X	-2.92
2	21	Z	-1.72
2	21	Y	1.41
2	21	X	-2.92

Loadcase ID: WS20 Name: EB -45
Multiplier = 1.000

Cap loads



Sheet # 60
Job # 59219

Program: LEAP® RC-PIER® V8i (SELECTseries 5) SE Client Licenses Designed CAM
Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 Date 10/17/14
www.bentley.com Phone: 1-800-778-4277 Checked
File Name: Pier 12_Ped_A4.rcp Date

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Force	X	0.00	-31.77 kips	0.50		
UDL	Z		-0.21 klf	0.00		1.00

Column loads

Col #	Type	Dir	Mag1	y1/L	Mag2	y2/L
6	UDL	X	-0.171 klf	0.00		1.00
6	UDL	Z	-0.287 klf	0.00		1.00
5	UDL	X	-0.171 klf	0.00		0.92
5	UDL	Z	-0.287 klf	0.00		0.92
4	UDL	X	-0.171 klf	0.00		1.00
4	UDL	Z	-0.287 klf	0.00		1.00
3	UDL	X	-0.171 klf	0.00		0.92
3	UDL	Z	-0.287 klf	0.00		0.92
2	UDL	X	-0.171 klf	0.00		1.00
2	UDL	Z	-0.287 klf	0.00		1.00
1	UDL	X	-0.171 klf	0.00		0.92
1	UDL	Z	-0.287 klf	0.00		0.92
7	UDL	X	0.171 klf	0.00		1.00
7	UDL	Z	0.287 klf	0.00		1.00
8	UDL	X	0.171 klf	0.00		0.92
8	UDL	Z	0.287 klf	0.00		0.92
9	UDL	X	0.171 klf	0.00		1.00
9	UDL	Z	0.287 klf	0.00		1.00
10	UDL	X	0.171 klf	0.00		0.92
10	UDL	Z	0.287 klf	0.00		0.92
11	UDL	X	0.171 klf	0.00		1.00
11	UDL	Z	0.287 klf	0.00		1.00
12	UDL	X	0.171 klf	0.00		0.92
12	UDL	Z	0.287 klf	0.00		0.92

Bearing loads

Line #	Bearing #	Dir	Load kips
1	10	Z	-1.46
1	10	Y	-0.92
1	10	X	-1.74
1	11	Z	-1.46
1	11	Y	0.00
1	11	X	-1.74
1	12	Z	-1.46
1	12	Y	0.00
1	12	X	-1.74



Sheet # 61
Job # 59219

Program: LEAP® RC-PIER® V8i (SELECTseries 5) SE Client Licenses Designed CAM
Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 Date 10/17/14
www.bentley.com Phone: 1-800-778-4277 Checked
File Name: Pier 12_Ped_A4.rcp Date

Line #	Bearing #	Dir	Load kips
1	13	Z	-1.46
1	13	Y	0.00
1	13	X	-1.74
1	14	Z	-1.46
1	14	Y	0.00
1	14	X	-1.74
1	15	X	-1.74
1	15	Y	0.00
1	15	Z	-1.46
1	16	Z	-1.46
1	16	Y	0.00
1	16	X	-1.74
1	17	Z	-1.46
1	17	Y	0.00
1	17	X	-1.74
1	18	Z	-1.46
1	18	Y	0.00
1	18	X	-1.74
1	19	Z	-1.46
1	19	Y	0.00
1	19	X	-1.74
1	20	X	-1.74
1	20	Z	-1.46
1	20	Y	0.00
1	21	Y	0.92
1	21	Z	-1.46
1	21	X	-1.74
2	11	Z	-1.87
2	11	Y	-1.08
2	11	X	-2.23
2	12	Z	-1.87
2	12	Y	0.00
2	12	X	-2.23
2	13	Z	-1.87
2	13	Y	0.00
2	13	X	-2.23
2	14	Z	-1.87
2	14	Y	0.00
2	14	X	-2.23
2	15	Z	-1.87
2	15	Y	0.00
2	15	X	-2.23
2	16	X	-2.23
2	16	Y	0.00
2	16	Z	-1.87
2	17	Z	-1.87
2	17	Y	0.00
2	17	X	-2.23
2	18	Z	-1.87

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 62
Job # 59219

Program: LEAP® RC-PIER® V8i (SELECTseries 5) SE Client Licenses Designed CAM
Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 Date 10/17/14
www.bentley.com Phone: 1-800-778-4277 Checked
File Name: Pier 12_Ped_A4.rcp Date

Line #	Bearing #	Dir	Load kips
	18	Y	0.00
2	18	X	-2.23
2	19	Z	-1.87
2	19	Y	0.00
2	19	X	-2.23
2	20	Z	-1.87
2	20	Y	0.00
2	20	X	-2.23
2	21	Z	-1.87
2	21	Y	1.08
2	21	X	-2.23

Loadcase ID: WS21 Name: EB -60
Multiplier = 1.000

Cap loads

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Force	X	0.00	-18.86 kips	0.50		
UDL	Z		-0.26 kif	0.00		1.00

Column loads

Col #	Type	Dir	Mag1	y1/L	Mag2	y2/L
6	UDL	X	0.000 kif	0.00		0.00
6	UDL	Z	0.000 kif	0.00		0.00
5	UDL	X	0.000 kif	0.00		0.00
5	UDL	Z	0.000 kif	0.00		0.00
4	UDL	X	0.000 kif	0.00		0.00
4	UDL	Z	0.000 kif	0.00		0.00
3	UDL	X	0.000 kif	0.00		0.00
3	UDL	Z	0.000 kif	0.00		0.00
2	UDL	X	0.000 kif	0.00		0.00
2	UDL	Z	0.000 kif	0.00		0.00
1	UDL	X	0.000 kif	0.00		0.00
1	UDL	Z	0.000 kif	0.00		0.00
7	UDL	X	0.000 kif	0.00		0.00
7	UDL	Z	0.000 kif	0.00		0.00

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 63
Job # 59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	10/17/14
File Name:		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:			Date	

Col #	Type	Dir	Mag1	y1/L	Mag2	y2/L
8	UDL	X	0.000 klf	0.00		0.00
8	UDL	Z	0.000 klf	0.00		0.00
9	UDL	X	0.000 klf	0.00		0.00
9	UDL	Z	0.000 klf	0.00		0.00
10	UDL	X	0.000 klf	0.00		0.00
10	UDL	Z	0.000 klf	0.00		0.00
11	UDL	X	0.000 klf	0.00		0.00
11	UDL	Z	0.000 klf	0.00		0.00
12	UDL	X	0.000 klf	0.00		0.00
12	UDL	Z	0.000 klf	0.00		0.00

Bearing loads

Line #	Bearing #	Dir	Load kips
1	10	Z	-0.09
1	10	Y	-0.31
1	10	X	-0.09
1	11	Z	-0.31
1	11	Y	-0.09
1	11	X	-0.31
1	12	Z	-0.09
1	12	Y	-0.31
1	12	X	-0.09
1	13	Z	-0.31
1	13	Y	-0.09
1	13	X	-0.31
1	14	Z	0.09
1	14	Y	0.31
1	14	X	0.09
1	15	X	0.31
1	15	Y	0.09
1	15	Z	0.31
1	16	Z	0.09
1	16	Y	0.31
1	16	X	0.09
1	17	Z	0.31
1	17	Y	0.09
1	17	X	0.31
1	18	Z	-1.40
1	18	Y	0.00
1	18	X	-0.73
1	19	Z	-1.40
1	19	Y	0.00
1	19	X	-0.73
1	20	X	-0.73
1	20	Z	-1.40
1	20	Y	0.00



Sheet # 64
Job # 59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	10/17/14
File Name:		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:			Date	

Line #	Bearing #	Dir	Load kips
1	21	Y	0.39
1	21	Z	-1.40
1	21	X	-0.73
2	11	Z	-1.79
2	11	Y	-0.45
2	11	X	-0.94
2	12	Z	-1.79
2	12	Y	0.00
2	12	X	-0.94
2	13	Z	-1.79
2	13	Y	0.00
2	13	X	-0.94
2	14	Z	-1.79
2	14	Y	0.00
2	14	X	-0.94
2	15	Z	-1.79
2	15	Y	0.00
2	15	X	-0.94
2	16	X	-0.94
2	16	Y	0.00
2	16	Z	-1.79
2	17	Z	-1.79
2	17	Y	0.00
2	17	X	-0.94
2	18	Z	-1.79
2	18	Y	0.00
2	18	X	-0.94
2	19	Z	-1.79
2	19	Y	0.00
2	19	X	-0.94
2	20	Z	-1.79
2	20	Y	0.00
2	20	X	-0.94
2	21	Z	-1.79
2	21	Y	0.45
2	21	X	-0.94

Loadcase ID: WS22 Name: EB -75

Multiplier = 1.000

Cap loads



Sheet # 65
Job # 59219

Program: LEAP® RC-PIER® V8i (SELECTseries 5) SE Client Licenses Designed CAM
Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 Date 10/17/14
www.bentley.com Phone: 1-800-778-4277 Checked
File Name: Pier 12_Ped_A4.rcp Date

Type	Dir	Arm ft	Mag1	x1/L	Mag2	x2/L
Force	X	0.00	-1.05 kips	0.50		
UDL	Z		-0.28 kif	0.00		1.00

Column loads

Col #	Type	Dir	Mag1	y1/L	Mag2	y2/L
6	UDL	X	-0.004 kif	0.00		1.00
6	UDL	Z	-0.278 kif	0.00		1.00
5	UDL	X	-0.004 kif	0.00		0.92
5	UDL	Z	-0.278 kif	0.00		0.92
4	UDL	X	-0.004 kif	0.00		1.00
4	UDL	Z	-0.278 kif	0.00		1.00
3	UDL	X	-0.004 kif	0.00		0.92
3	UDL	Z	-0.278 kif	0.00		0.92
2	UDL	X	-0.004 kif	0.00		1.00
2	UDL	Z	-0.278 kif	0.00		1.00
1	UDL	X	-0.004 kif	0.00		0.92
1	UDL	Z	-0.278 kif	0.00		0.92
7	UDL	X	0.004 kif	0.00		1.00
7	UDL	Z	0.278 kif	0.00		1.00
8	UDL	X	0.004 kif	0.00		0.92
8	UDL	Z	0.278 kif	0.00		0.92
9	UDL	X	0.004 kif	0.00		1.00
9	UDL	Z	0.278 kif	0.00		1.00
10	UDL	X	0.004 kif	0.00		0.92
10	UDL	Z	0.278 kif	0.00		0.92
11	UDL	X	0.004 kif	0.00		1.00
11	UDL	Z	0.278 kif	0.00		1.00
12	UDL	X	0.004 kif	0.00		0.92
12	UDL	Z	0.278 kif	0.00		0.92

Bearing loads

Line #	Bearing #	Dir	Load kips
1	10	Z	-1.49
1	10	Y	-0.17
1	10	X	-0.33
1	11	Z	-1.49
1	11	Y	0.00
1	11	X	-0.33
1	12	Z	-1.49
1	12	Y	0.00
1	12	X	-0.33



Sheet # 66
Job # 59219

Program: LEAP® RC-PIER® V8i (SELECTseries 5) SE Client Licenses Designed CAM
Version: 12.01.00.57 Copyright © Bentley Systems, Inc. 2012 Date 10/17/14
www.bentley.com Phone: 1-800-778-4277 Checked
File Name: Pier 12_Ped_A4.rcp Date

Line #	Bearing #	Dir	Load kips
1	13	Z	-1.49
1	13	Y	0.00
1	13	X	-0.33
1	14	Z	-1.49
1	14	Y	0.00
1	14	X	-0.33
1	15	X	-0.33
1	15	Y	0.00
1	15	Z	-1.49
1	16	Z	-1.49
1	16	Y	0.00
1	16	X	-0.33
1	17	Z	-1.49
1	17	Y	0.00
1	17	X	-0.33
1	18	Z	-1.49
1	18	Y	0.00
1	18	X	-0.33
1	19	Z	-1.49
1	19	Y	0.00
1	19	X	-0.33
1	20	X	-0.33
1	20	Z	-1.49
1	20	Y	0.00
1	21	Y	0.17
1	21	Z	-1.49
1	21	X	-0.33
2	11	Z	-1.91
2	11	Y	-0.20
2	11	X	-0.42
2	12	Z	-1.91
2	12	Y	0.00
2	12	X	-0.42
2	13	Z	-1.91
2	13	Y	0.00
2	13	X	-0.42
2	14	Z	-1.91
2	14	Y	0.00
2	14	X	-0.42
2	15	Z	-1.91
2	15	Y	0.00
2	15	X	-0.42
2	16	X	-0.42
2	16	Y	0.00
2	16	Z	-1.91
2	17	Z	-1.91
2	17	Y	0.00
2	17	X	-0.42
2	18	Z	-1.91



Sheet #	67
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	10/17/14
File Name:		www.bentley.com Phone: 1-800-778-4277	Checked	
			Date	

Line #	Bearing #	Dir	Load kips
	18	Y	0.00
2	18	X	-0.42
2	19	Z	-1.91
2	19	Y	0.00
2	19	X	-0.42
2	20	Z	-1.91
2	20	Y	0.00
2	20	X	-0.42
2	21	Z	-1.91
2	21	Y	0.20
2	21	X	-0.42

Loadcase ID: WL1 Name: WB 75
Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	-0.11
1	1	Y	-0.14
1	1	Z	0.18
1	2	X	-0.11
1	2	Y	0.00
1	2	Z	0.18
1	3	X	-0.11
1	3	Y	0.00
1	3	Z	0.18
1	4	X	-0.11
1	4	Y	0.00
1	4	Z	0.18
1	5	X	-0.11
1	5	Y	0.00
1	5	Z	0.18
1	6	X	-0.11
1	6	Y	0.00
1	6	Z	0.18



Sheet #	68
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	10/17/14
File Name:		www.bentley.com Phone: 1-800-778-4277	Checked	
			Date	

Line #	Bearing #	Dir	Load kips
1	7	X	-0.11
1	7	Y	0.00
1	7	Z	0.18
1	8	X	-0.11
1	8	Y	0.00
1	8	Z	0.18
1	9	Z	-0.11
2	1	X	0.14
2	1	Y	0.18
2	1	Z	-0.17
2	2	X	-0.23
2	2	Y	0.27
2	2	Z	-0.17
2	3	X	0.00
2	3	Y	0.27
2	3	Z	-0.17
2	4	X	0.00
2	4	Y	0.27
2	4	Z	-0.17
2	5	X	0.00
2	5	Y	0.27
2	5	Z	-0.17
2	6	X	0.00
2	6	Y	0.27
2	6	Z	-0.17
2	7	X	0.00
2	7	Y	0.27
2	7	Z	-0.17
2	8	X	0.00
2	8	Y	0.27
2	8	Z	-0.17
2	9	X	0.00
2	9	Y	0.27
2	9	Z	-0.17
2	10	X	0.27
2	10	Y	-0.17
2	10	Z	0.23
1	1	X	0.27

Loadcase ID: WL2 Name: WB 60



Sheet # 69
Job # 59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	10/17/14
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier 12_Ped_A4.rcp		Date	

Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	-0.20
1	1	Y	-0.25
1	1	Z	0.13
1	2	X	-0.20
1	2	Y	0.00
1	2	Z	0.13
1	3	X	-0.20
1	3	Y	0.00
1	3	Z	0.13
1	4	X	-0.20
1	4	Y	0.00
1	4	Z	0.13
1	5	X	-0.20
1	5	Y	0.00
1	5	Z	0.13
1	6	X	-0.20
1	6	Y	0.00
1	6	Z	0.13
1	7	X	-0.20
1	7	Y	0.00
1	7	Z	0.13
1	8	X	-0.20
1	8	Y	0.00
1	8	Z	0.13
1	9	Z	-0.20
2	1	X	0.25
2	1	Y	0.13
2	1	Z	-0.30
2	2	X	-0.41
2	2	Y	0.20
2	2	Z	-0.30
2	3	X	0.00
2	3	Y	0.20
2	3	Z	-0.30
2	4	X	0.00
2	4	Y	0.20
2	4	Z	-0.30
2	5	X	0.00
2	5	Y	0.20
2	5	Z	-0.30
2	6	X	0.00

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 70
Job # 59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	10/17/14
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier 12_Ped_A4.rcp		Date	

Line #	Bearing #	Dir	Load kips
2	6	Y	0.20
2	6	Z	-0.30
2	7	X	0.00
2	7	Y	0.20
2	7	Z	-0.30
2	8	X	0.00
2	8	Y	0.20
2	8	Z	-0.30
2	9	X	0.00
2	9	Y	0.20
2	9	Z	-0.30
2	10	X	0.20
2	10	Y	-0.30
2	10	Z	0.41
1	1	X	0.20

Loadcase ID: WL3 Name: WB 45
Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	-0.34
1	1	Y	-0.42
1	1	Z	0.07
1	2	X	-0.34
1	2	Y	0.00
1	2	Z	0.07
1	3	X	-0.34
1	3	Y	0.00
1	3	Z	0.07
1	4	X	-0.34
1	4	Y	0.00
1	4	Z	0.07
1	5	X	-0.34

Units: US (English)

Design Code: AASHTO LRFD



Sheet #	71
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	10/17/14
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier 12_Ped_A4.rcp			Date

Line #	Bearing #	Dir	Load kips
1	5	Y	0.00
1	5	Z	0.07
1	6	X	-0.34
1	6	Y	0.00
1	6	Z	0.07
1	7	X	-0.34
1	7	Y	0.00
1	7	Z	0.07
1	8	X	-0.34
1	8	Y	0.00
1	8	Z	0.07
1	9	Z	-0.34
2	1	X	0.42
2	1	Y	0.07
2	1	Z	-0.51
2	2	X	-0.70
2	2	Y	0.11
2	2	Z	-0.51
2	3	X	0.00
2	3	Y	0.11
2	3	Z	-0.51
2	4	X	0.00
2	4	Y	0.11
2	4	Z	-0.51
2	5	X	0.00
2	5	Y	0.11
2	5	Z	-0.51
2	6	X	0.00
2	6	Y	0.11
2	6	Z	-0.51
2	7	X	0.00
2	7	Y	0.11
2	7	Z	-0.51
2	8	X	0.00
2	8	Y	0.11
2	8	Z	-0.51
2	9	X	0.00
2	9	X	0.11
2	9	Y	-0.51
2	9	Z	0.00
2	10	X	0.11
2	10	Y	-0.51
2	10	Z	0.70
1	1	X	0.11



Sheet #	72
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	10/17/14
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier 12_Ped_A4.rcp			Date

Loadcase ID: WL4 Name: WB 30
Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	-0.40
1	1	Y	-0.50
1	1	Z	0.02
1	2	X	-0.40
1	2	Y	0.00
1	2	Z	0.02
1	3	X	-0.40
1	3	Y	0.00
1	3	Z	0.02
1	4	X	-0.40
1	4	Y	0.00
1	4	Z	0.02
1	5	X	-0.40
1	5	Y	0.00
1	5	Z	0.02
1	6	X	-0.40
1	6	Y	0.00
1	6	Z	0.02
1	7	X	-0.40
1	7	Y	0.00
1	7	Z	0.02
1	8	X	-0.40
1	8	Y	0.00
1	8	Z	0.02
1	9	Z	-0.40
2	1	X	0.50
2	1	Y	0.02
2	1	Z	-0.61
2	2	X	-0.83
2	2	Y	0.02
2	2	Z	-0.61
2	3	X	0.00
2	3	Y	0.02
2	3	Z	-0.61
2	4	X	0.00
2	4	Y	0.02



Sheet #	73
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	10/17/14
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier 12_Ped_A4.rcp	Date		

Line #	Bearing #	Dir	Load kips
2	4	Z	-0.61
2	5	X	0.00
2	5	Y	0.02
2	5	Z	-0.61
2	6	X	0.00
2	6	Y	0.02
2	6	Z	-0.61
2	7	X	0.00
2	7	Y	0.02
2	7	Z	-0.61
2	8	X	0.00
2	8	Y	0.02
2	8	Z	-0.61
2	9	X	0.00
2	9	X	0.02
2	9	Y	-0.61
2	9	Z	0.00
2	10	X	0.02
2	10	Y	-0.61
2	10	Z	0.83
1	1	X	0.02

Loadcase ID: WL5 Name: WB 15
Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	-0.42
1	1	Y	-0.52
1	1	Z	-0.05
1	2	X	-0.42
1	2	Y	0.00
1	2	Z	-0.05
1	3	X	-0.42
1	3	Y	0.00



Sheet #	74
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	10/17/14
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier 12_Ped_A4.rcp	Date		

Line #	Bearing #	Dir	Load kips
1	3	Z	-0.05
1	4	X	-0.42
1	4	Y	0.00
1	4	Z	-0.05
1	5	X	-0.42
1	5	Y	0.00
1	5	Z	-0.05
1	6	X	-0.42
1	6	Y	0.00
1	6	Z	-0.05
1	7	X	-0.42
1	7	Y	0.00
1	7	Z	-0.05
1	8	X	-0.42
1	8	Y	0.00
1	8	Z	-0.05
1	9	Z	-0.42
2	1	X	0.52
2	1	Y	-0.05
2	1	Z	-0.63
2	2	X	-0.86
2	2	Y	-0.07
2	2	Z	-0.63
2	3	X	0.00
2	3	Y	-0.07
2	3	Z	-0.63
2	4	X	0.00
2	4	Y	-0.07
2	4	Z	-0.63
2	5	X	0.00
2	5	Y	-0.07
2	5	Z	-0.63
2	6	X	0.00
2	6	Y	-0.07
2	6	Z	-0.63
2	7	X	0.00
2	7	Y	-0.07
2	7	Z	-0.63
2	8	X	0.00
2	8	Y	-0.07
2	8	Z	-0.63
2	9	X	0.00
2	9	X	-0.07
2	9	Y	-0.63
2	9	Z	0.00
2	10	X	-0.07
2	10	Y	-0.63
2	10	Z	0.86
1	1	X	-0.07



Sheet #	75
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	10/17/14
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier 12_Ped_A4.rcp			Date

Loadcase ID: WL6 Name: WB 0
Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	-0.46
1	1	Y	-0.57
1	1	Z	-0.12
1	2	X	-0.46
1	2	Y	0.00
1	2	Z	-0.12
1	3	X	-0.46
1	3	Y	0.00
1	3	Z	-0.12
1	4	X	-0.46
1	4	Y	0.00
1	4	Z	-0.12
1	5	X	-0.46
1	5	Y	0.00
1	5	Z	-0.12
1	6	X	-0.46
1	6	Y	0.00
1	6	Z	-0.12
1	7	X	-0.46
1	7	Y	0.00
1	7	Z	-0.12
1	8	X	-0.46
1	8	Y	0.00
1	8	Z	-0.12
1	9	Z	-0.46
2	1	X	0.57
2	1	Y	-0.12
2	1	Z	-0.69
2	2	X	-0.94
2	2	Y	-0.17
2	2	Z	-0.69
2	3	X	0.00

Units: US (English)

Design Code: AASHTO LRFD



Sheet #	76
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	10/17/14
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier 12_Ped_A4.rcp			Date

Line #	Bearing #	Dir	Load kips
2	3	Y	-0.17
2	3	Z	-0.69
2	4	X	0.00
2	4	Y	-0.17
2	4	Z	-0.69
2	5	X	0.00
2	5	Y	-0.17
2	5	Z	-0.69
2	6	X	0.00
2	6	Y	-0.17
2	6	Z	-0.69
2	7	X	0.00
2	7	Y	-0.17
2	7	Z	-0.69
2	8	X	0.00
2	8	Y	-0.17
2	8	Z	-0.69
2	9	X	0.00
2	9	Y	-0.17
2	9	Z	0.00
2	10	X	-0.17
2	10	Y	-0.69
2	10	Z	0.94
1	1	X	-0.17

Loadcase ID: WL7 Name: WB -15
Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	-0.39
1	1	Y	-0.48
1	1	Z	-0.16
1	2	X	-0.39

Units: US (English)

Design Code: AASHTO LRFD



Sheet #	77
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	10/17/14
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier 12_Ped_A4.rcp			Date

Line #	Bearing #	Dir	Load kips
1	2	Y	0.00
1	2	Z	-0.16
1	3	X	-0.39
1	3	Y	0.00
1	3	Z	-0.16
1	4	X	-0.39
1	4	Y	0.00
1	4	Z	-0.16
1	5	X	-0.39
1	5	Y	0.00
1	5	Z	-0.16
1	6	X	-0.39
1	6	Y	0.00
1	6	Z	-0.16
1	7	X	-0.39
1	7	Y	0.00
1	7	Z	-0.16
1	8	X	-0.39
1	8	Y	0.00
1	8	Z	-0.16
1	9	Z	-0.39
2	1	X	0.48
2	1	Y	-0.16
2	1	Z	-0.59
2	2	X	-0.80
2	2	Y	-0.24
2	2	Z	-0.59
2	3	X	0.00
2	3	Y	-0.24
2	3	Z	-0.59
2	4	X	0.00
2	4	Y	-0.24
2	4	Z	-0.59
2	5	X	0.00
2	5	Y	-0.24
2	5	Z	-0.59
2	6	X	0.00
2	6	Y	-0.24
2	6	Z	-0.59
2	7	X	0.00
2	7	Y	-0.24
2	7	Z	-0.59
2	8	X	0.00
2	8	Y	-0.24
2	8	Z	-0.59
2	9	X	0.00
2	9	Y	-0.59
2	9	Z	0.00

Units: US (English)

Design Code: AASHTO LRFD



Sheet #	78
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	10/17/14
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier 12_Ped_A4.rcp			Date

Line #	Bearing #	Dir	Load kips
	10	X	-0.24
2	10	Y	-0.59
2	10	Z	0.80
1	1	X	-0.24

Loadcase ID: WL8 Name: WB -30
Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	-0.35
1	1	Y	-0.43
1	1	Z	-0.20
1	2	X	-0.35
1	2	Y	0.00
1	2	Z	-0.20
1	3	X	-0.35
1	3	Y	0.00
1	3	Z	-0.20
1	4	X	-0.35
1	4	Y	0.00
1	4	Z	-0.20
1	5	X	-0.35
1	5	Y	0.00
1	5	Z	-0.20
1	6	X	-0.35
1	6	Y	0.00
1	6	Z	-0.20
1	7	X	-0.35
1	7	Y	0.00
1	7	Z	-0.20
1	8	X	-0.35
1	8	Y	0.00
1	8	Z	-0.20
1	9	Z	-0.35

Units: US (English)

Design Code: AASHTO LRFD



Sheet #	79
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	10/17/14
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier 12_Ped_A4.rcp	Date		

Line #	Bearing #	Dir	Load kips
2	1	X	0.43
2	1	Y	-0.20
2	1	Z	-0.52
2	2	X	-0.72
2	2	Y	-0.31
2	2	Z	-0.52
2	3	X	0.00
2	3	Y	-0.31
2	3	Z	-0.52
2	4	X	0.00
2	4	Y	-0.31
2	4	Z	-0.52
2	5	X	0.00
2	5	Y	-0.31
2	5	Z	-0.52
2	6	X	0.00
2	6	Y	-0.31
2	6	Z	-0.52
2	7	X	0.00
2	7	Y	-0.31
2	7	Z	-0.52
2	8	X	0.00
2	8	Y	-0.31
2	8	Z	-0.52
2	9	X	0.00
2	9	Y	-0.31
2	9	Z	-0.52
2	10	X	-0.31
2	10	Y	-0.52
2	10	Z	0.72
1	1	X	-0.31

Loadcase ID: WL9 Name: WB -45
Multiplier = 1.000



Sheet #	80
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	10/17/14
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier 12_Ped_A4.rcp	Date		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	-0.26
1	1	Y	-0.33
1	1	Z	-0.22
1	2	X	-0.26
1	2	Y	0.00
1	2	Z	-0.22
1	3	X	-0.26
1	3	Y	0.00
1	3	Z	-0.22
1	4	X	-0.26
1	4	Y	0.00
1	4	Z	-0.22
1	5	X	-0.26
1	5	Y	0.00
1	5	Z	-0.22
1	6	X	-0.26
1	6	Y	0.00
1	6	Z	-0.22
1	7	X	-0.26
1	7	Y	0.00
1	7	Z	-0.22
1	8	X	-0.26
1	8	Y	0.00
1	8	Z	-0.22
1	9	Z	-0.26
2	1	X	0.33
2	1	Y	-0.22
2	1	Z	-0.40
2	2	X	-0.55
2	2	Y	-0.34
2	2	Z	-0.40
2	3	X	0.00
2	3	Y	-0.34
2	3	Z	-0.40
2	4	X	0.00
2	4	Y	-0.34
2	4	Z	-0.40
2	5	X	0.00
2	5	Y	-0.34
2	5	Z	-0.40
2	6	X	0.00
2	6	Y	-0.34
2	6	Z	-0.40
2	7	X	0.00
2	7	Y	-0.34
2	7	Z	-0.40
2	8	X	0.00
2	8	Y	-0.34



Sheet #	81
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	10/17/14
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier 12_Ped_A4.rcp			Date

Line #	Bearing #	Dir	Load kips
	8	Z	-0.40
2	9	X	0.00
2	9	X	-0.34
2	9	Y	-0.40
2	9	Z	0.00
2	10	X	-0.34
2	10	Y	-0.40
2	10	Z	0.55
1	1	X	-0.34

Loadcase ID: WL10 Name: WB -60
Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	-0.11
1	1	Y	-0.14
1	1	Z	-0.21
1	2	X	-0.11
1	2	Y	0.00
1	2	Z	-0.21
1	3	X	-0.11
1	3	Y	0.00
1	3	Z	-0.21
1	4	X	-0.11
1	4	Y	0.00
1	4	Z	-0.21
1	5	X	-0.11
1	5	Y	0.00
1	5	Z	-0.21
1	6	X	-0.11
1	6	Y	0.00
1	6	Z	-0.21
1	7	X	-0.11
1	7	Y	0.00



Sheet #	82
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	10/17/14
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier 12_Ped_A4.rcp			Date

Line #	Bearing #	Dir	Load kips
1	7	Z	-0.21
1	8	X	-0.11
1	8	Y	0.00
1	8	Z	-0.21
1	9	Z	-0.11
2	1	X	0.14
2	1	Y	-0.21
2	1	Z	-0.17
2	2	X	-0.23
2	2	Y	-0.32
2	2	Z	-0.17
2	3	X	0.00
2	3	Y	-0.32
2	3	Z	-0.17
2	4	X	0.00
2	4	Y	-0.32
2	4	Z	-0.17
2	5	X	0.00
2	5	Y	-0.32
2	5	Z	-0.17
2	6	X	0.00
2	6	Y	-0.32
2	6	Z	-0.17
2	7	X	0.00
2	7	Y	-0.32
2	7	Z	-0.17
2	8	X	0.00
2	8	Y	-0.32
2	8	Z	-0.17
2	9	X	0.00
2	9	Y	-0.32
2	9	Z	-0.17
2	10	X	-0.32
2	10	Y	-0.17
2	10	Z	0.23
1	1	X	-0.32

Loadcase ID: WL11 Name: WB -75
Multiplier = 1.000



Sheet # 83
Job # 59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	10/17/14
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier 12_Ped_A4.rcp			Date

Bearing loads

Line #	Bearing #	Dir	Load kips
1	1	X	-0.02
1	1	Y	-0.02
1	1	Z	-0.21
1	2	X	-0.02
1	2	Y	0.00
1	2	Z	-0.21
1	3	X	-0.02
1	3	Y	0.00
1	3	Z	-0.21
1	4	X	-0.02
1	4	Y	0.00
1	4	Z	-0.21
1	5	X	-0.02
1	5	Y	0.00
1	5	Z	-0.21
1	6	X	-0.02
1	6	Y	0.00
1	6	Z	-0.21
1	7	X	-0.02
1	7	Y	0.00
1	7	Z	-0.21
1	8	X	-0.02
1	8	Y	0.00
1	8	Z	-0.21
1	9	Z	-0.02
2	1	X	0.02
2	1	Y	-0.21
2	1	Z	-0.02
2	2	X	-0.03
2	2	Y	-0.31
2	2	Z	-0.02
2	3	X	0.00
2	3	Y	-0.31
2	3	Z	-0.02
2	4	X	0.00
2	4	Y	-0.31
2	4	Z	-0.02
2	5	X	0.00
2	5	Y	-0.31
2	5	Z	-0.02
2	6	X	0.00
2	6	Y	-0.31
2	6	Z	-0.02

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 84
Job # 59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	10/17/14
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier 12_Ped_A4.rcp			Date

Line #	Bearing #	Dir	Load kips
2	7	X	0.00
2	7	Y	-0.31
2	7	Z	-0.02
2	8	X	0.00
2	8	Y	-0.31
2	8	Z	-0.02
2	9	X	0.00
2	9	X	-0.31
2	9	Y	-0.02
2	9	Z	0.00
2	10	X	-0.31
2	10	Y	-0.02
2	10	Z	0.03
1	1	X	-0.31

Loadcase ID: WL12 Name: EB 75

Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	10	Z	0.19
1	10	Y	-0.17
1	10	X	-0.12
1	11	Z	0.19
1	11	Y	0.00
1	11	X	-0.12
1	12	Z	0.19
1	12	Y	0.00
1	12	X	-0.12
1	13	Z	0.19
1	13	Y	0.00
1	13	X	-0.12
1	14	Z	0.19
1	14	Y	0.00
1	14	X	-0.12

Units: US (English)

Design Code: AASHTO LRFD



Sheet #	85
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	10/17/14
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier 12_Ped_A4.rcp			Date

Line #	Bearing #	Dir	Load kips
1	15	X	-0.12
1	15	Y	0.00
1	15	Z	0.19
1	16	Z	0.19
1	16	Y	0.00
1	16	X	-0.12
1	17	Z	0.19
1	17	Y	0.00
1	17	X	-0.12
1	18	Z	0.19
1	18	Y	0.00
1	18	X	-0.12
1	19	Z	0.19
1	19	Y	0.00
1	19	X	-0.12
1	20	X	-0.12
1	20	Z	0.19
1	20	Y	0.00
1	21	Y	0.17
1	21	Z	0.19
1	21	X	-0.12
2	11	Z	0.24
2	11	Y	-0.20
2	11	X	-0.15
2	12	Z	0.24
2	12	Y	0.00
2	12	X	-0.15
2	13	Z	0.24
2	13	Y	0.00
2	13	X	-0.15
2	14	Z	0.24
2	14	Y	0.00
2	14	X	-0.15
2	15	Z	0.24
2	15	Y	0.00
2	15	X	-0.15
2	16	X	-0.15
2	16	Y	0.00
2	16	Z	0.24
2	17	Z	0.24
2	17	Y	0.00
2	17	X	-0.15
2	18	Z	0.24
2	18	Y	0.00
2	18	X	-0.15
2	19	Z	0.24
2	19	Y	0.00
2	19	X	-0.15
2	20	Z	0.24

Units: US (English)

Design Code: AASHTO LRFD



Sheet #	86
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	10/17/14
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier 12_Ped_A4.rcp			Date

Line #	Bearing #	Dir	Load kips
	20	Y	0.00
2	20	X	-0.15
2	21	Z	0.24
2	21	Y	0.20
2	21	X	-0.15

Loadcase ID: WL13 Name: EB 60
Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	10	Z	0.14
1	10	Y	-0.30
1	10	X	-0.21
1	11	Z	0.14
1	11	Y	0.00
1	11	X	-0.21
1	12	Z	0.14
1	12	Y	0.00
1	12	X	-0.21
1	13	Z	0.14
1	13	Y	0.00
1	13	X	-0.21
1	14	Z	0.14
1	14	Y	0.00
1	14	X	-0.21
1	15	X	-0.21
1	15	Y	0.00
1	15	Z	0.14
1	16	Z	0.14
1	16	Y	0.00
1	16	X	-0.21
1	17	Z	0.14
1	17	Y	0.00
1	17	X	-0.21

Units: US (English)

Design Code: AASHTO LRFD



Sheet #	87
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	10/17/14
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier 12_Ped_A4.rcp			Date

Line #	Bearing #	Dir	Load kips
1	18	Z	0.14
1	18	Y	0.00
1	18	X	-0.21
1	19	Z	0.14
1	19	Y	0.00
1	19	X	-0.21
1	20	X	-0.21
1	20	Z	0.14
1	20	Y	0.00
1	21	Y	0.30
1	21	Z	0.14
1	21	X	-0.21
2	11	Z	0.18
2	11	Y	-0.35
2	11	X	-0.27
2	12	Z	0.18
2	12	Y	0.00
2	12	X	-0.27
2	13	Z	0.18
2	13	Y	0.00
2	13	X	-0.27
2	14	Z	0.18
2	14	Y	0.00
2	14	X	-0.27
2	15	Z	0.18
2	15	Y	0.00
2	15	X	-0.27
2	16	X	-0.27
2	16	Y	0.00
2	16	Z	0.18
2	17	Z	0.18
2	17	Y	0.00
2	17	X	-0.27
2	18	Z	0.18
2	18	Y	0.00
2	18	X	-0.27
2	19	Z	0.18
2	19	Y	0.00
2	19	X	-0.27
2	20	Z	0.18
2	20	Y	0.00
2	20	X	-0.27
2	21	Z	0.18
2	21	Y	0.35
2	21	X	-0.27

Units: US (English)

Design Code: AASHTO LRFD



Sheet #	88
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	10/17/14
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier 12_Ped_A4.rcp			Date

Loadcase ID: WL14 Name: EB 45

Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	10	Z	0.08
1	10	Y	-0.51
1	10	X	-0.36
1	11	Z	0.08
1	11	Y	0.00
1	11	X	-0.36
1	12	Z	0.08
1	12	Y	0.00
1	12	X	-0.36
1	13	Z	0.08
1	13	Y	0.00
1	13	X	-0.36
1	14	Z	0.08
1	14	Y	0.00
1	14	X	-0.36
1	15	X	-0.36
1	15	Y	0.00
1	15	Z	0.08
1	16	Z	0.08
1	16	Y	0.00
1	16	X	-0.36
1	17	Z	0.08
1	17	Y	0.00
1	17	X	-0.36
1	18	Z	0.08
1	18	Y	0.00
1	18	X	-0.36
1	19	Z	0.08
1	19	Y	0.00
1	19	X	-0.36
1	20	X	-0.36
1	20	Z	0.08
1	20	Y	0.00
1	21	Y	0.51
1	21	Z	0.08

Units: US (English)

Design Code: AASHTO LRFD



Sheet #	89
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	10/17/14
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier 12_Ped_A4.rcp	Date		

Line #	Bearing #	Dir	Load kips
1	21	X	-0.36
2	11	Z	0.10
2	11	Y	-0.60
2	11	X	-0.46
2	12	Z	0.10
2	12	Y	0.00
2	12	X	-0.46
2	13	Z	0.10
2	13	Y	0.00
2	13	X	-0.46
2	14	Z	0.10
2	14	Y	0.00
2	14	X	-0.46
2	15	Z	0.10
2	15	Y	0.00
2	15	X	-0.46
2	16	X	-0.46
2	16	Y	0.00
2	16	Z	0.10
2	17	Z	0.10
2	17	Y	0.00
2	17	X	-0.46
2	18	Z	0.10
2	18	Y	0.00
2	18	X	-0.46
2	19	Z	0.10
2	19	Y	0.00
2	19	X	-0.46
2	20	Z	0.10
2	20	Y	0.00
2	20	X	-0.46
2	21	Z	0.10
2	21	Y	0.60
2	21	X	-0.46

Loadcase ID: WL15 Name: EB 30
Multiplier = 1.000



Sheet #	90
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	10/17/14
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier 12_Ped_A4.rcp	Date		

Bearing loads

Line #	Bearing #	Dir	Load kips
1	10	Z	0.02
1	10	Y	-0.61
1	10	X	-0.43
1	11	Z	0.02
1	11	Y	0.00
1	11	X	-0.43
1	12	Z	0.02
1	12	Y	0.00
1	12	X	-0.43
1	13	Z	0.02
1	13	Y	0.00
1	13	X	-0.43
1	14	Z	0.02
1	14	Y	0.00
1	14	X	-0.43
1	15	X	-0.43
1	15	Y	0.00
1	15	Z	0.02
1	16	Z	0.02
1	16	Y	0.00
1	16	X	-0.43
1	17	Z	0.02
1	17	Y	0.00
1	17	X	-0.43
1	18	Z	0.02
1	18	Y	0.00
1	18	X	-0.43
1	19	Z	0.02
1	19	Y	0.00
1	19	X	-0.43
1	20	X	-0.43
1	20	Z	0.02
1	20	Y	0.00
1	21	Y	0.61
1	21	Z	0.02
1	21	X	-0.43
2	11	Z	0.02
2	11	Y	-0.72
2	11	X	-0.55
2	12	Z	0.02
2	12	Y	0.00
2	12	X	-0.55
2	13	Z	0.02
2	13	Y	0.00
2	13	X	-0.55
2	14	Z	0.02



Sheet #	91
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	10/17/14
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier 12_Ped_A4.rcp			Date

Line #	Bearing #	Dir	Load kips
2	14	Y	0.00
2	14	X	-0.55
2	15	Z	0.02
2	15	Y	0.00
2	15	X	-0.55
2	16	X	-0.55
2	16	Y	0.00
2	16	Z	0.02
2	17	Z	0.02
2	17	Y	0.00
2	17	X	-0.55
2	18	Z	0.02
2	18	Y	0.00
2	18	X	-0.55
2	19	Z	0.02
2	19	Y	0.00
2	19	X	-0.55
2	20	Z	0.02
2	20	X	-0.55
2	21	Z	0.02
2	21	Y	0.72
2	21	X	-0.55

Loadcase ID: WL16 Name: EB 15
Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	10	Z	-0.05
1	10	Y	-0.63
1	10	X	-0.45
1	11	Z	-0.05
1	11	Y	0.00
1	11	X	-0.45



Sheet #	92
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	10/17/14
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier 12_Ped_A4.rcp			Date

Line #	Bearing #	Dir	Load kips
1	12	Z	-0.05
1	12	Y	0.00
1	12	X	-0.45
1	13	Z	-0.05
1	13	Y	0.00
1	13	X	-0.45
1	14	Z	-0.05
1	14	Y	0.00
1	14	X	-0.45
1	15	X	-0.45
1	15	Y	0.00
1	15	Z	-0.05
1	16	Z	-0.05
1	16	Y	0.00
1	16	X	-0.45
1	17	Z	-0.05
1	17	Y	0.00
1	17	X	-0.45
1	18	Z	-0.05
1	18	Y	0.00
1	18	X	-0.45
1	19	Z	-0.05
1	19	Y	0.00
1	19	X	-0.45
1	20	X	-0.45
1	20	Z	-0.05
1	20	Y	0.00
1	21	Y	0.63
1	21	Z	-0.05
1	21	X	-0.45
2	11	Z	-0.06
2	11	Y	-0.74
2	11	X	-0.57
2	12	Z	-0.06
2	12	Y	0.00
2	12	X	-0.57
2	13	Z	-0.06
2	13	Y	0.00
2	13	X	-0.57
2	14	Z	-0.06
2	14	Y	0.00
2	14	X	-0.57
2	15	Z	-0.06
2	15	Y	0.00
2	15	X	-0.57
2	16	X	-0.57
2	16	Y	0.00
2	16	Z	-0.06
2	17	Z	-0.06



Sheet # 93
Job # 59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	10/17/14
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier 12_Ped_A4.rcp			Date

Line #	Bearing #	Dir	Load kips
	17	Y	0.00
2	17	X	-0.57
2	18	Z	-0.06
2	18	Y	0.00
2	18	X	-0.57
2	19	Z	-0.06
2	19	Y	0.00
2	19	X	-0.57
2	20	Z	-0.06
2	20	Y	0.00
2	20	X	-0.57
2	21	Z	-0.06
2	21	Y	0.74
2	21	X	-0.57

Loadcase ID: WL17 Name: EB 0

Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	10	Z	-0.12
1	10	Y	-0.69
1	10	X	-0.49
1	11	Z	-0.12
1	11	Y	0.00
1	11	X	-0.49
1	12	Z	-0.12
1	12	Y	0.00
1	12	X	-0.49
1	13	Z	-0.12
1	13	Y	0.00
1	13	X	-0.49
1	14	Z	-0.12
1	14	Y	0.00
1	14	X	-0.49

Units: US (English)

Design Code: AASHTO LRFD



Sheet # 94
Job # 59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	10/17/14
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier 12_Ped_A4.rcp			Date

Line #	Bearing #	Dir	Load kips
1	15	X	-0.49
1	15	Y	0.00
1	15	Z	-0.12
1	16	Z	-0.12
1	16	Y	0.00
1	16	X	-0.49
1	17	Z	-0.12
1	17	Y	0.00
1	17	X	-0.49
1	18	Z	-0.12
1	18	Y	0.00
1	18	X	-0.49
1	19	Z	-0.12
1	19	Y	0.00
1	19	X	-0.49
1	20	X	-0.49
1	20	Z	-0.12
1	20	Y	0.00
1	21	Y	0.69
1	21	Z	-0.12
1	21	X	-0.49
2	11	Z	-0.16
2	11	Y	-0.81
2	11	X	-0.63
2	12	Z	-0.16
2	12	Y	0.00
2	12	X	-0.63
2	13	Z	-0.16
2	13	Y	0.00
2	13	X	-0.63
2	14	Z	-0.16
2	14	Y	0.00
2	14	X	-0.63
2	15	Z	-0.16
2	15	Y	0.00
2	15	X	-0.63
2	16	X	-0.63
2	16	Y	0.00
2	16	Z	-0.16
2	17	Z	-0.16
2	17	Y	0.00
2	17	X	-0.63
2	18	Z	-0.16
2	18	Y	0.00
2	18	X	-0.63
2	19	Z	-0.16
2	19	Y	0.00
2	19	X	-0.63
2	20	Z	-0.16

Units: US (English)

Design Code: AASHTO LRFD



Sheet #	95
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	10/17/14
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier 12_Ped_A4.rcp			Date

Line #	Bearing #	Dir	Load kips
	20	Y	0.00
2	20	X	-0.63
2	21	Z	-0.16
2	21	Y	0.81
2	21	X	-0.63

Loadcase ID: WL18 Name: EB -15
Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	10	Z	-0.17
1	10	Y	-0.59
1	10	X	-0.42
1	11	Z	-0.17
1	11	Y	0.00
1	11	X	-0.42
1	12	Z	-0.17
1	12	Y	0.00
1	12	X	-0.42
1	13	Z	-0.17
1	13	Y	0.00
1	13	X	-0.42
1	14	Z	-0.17
1	14	Y	0.00
1	14	X	-0.42
1	15	X	-0.42
1	15	Y	0.00
1	15	Z	-0.17
1	16	Z	-0.17
1	16	Y	0.00
1	16	X	-0.42
1	17	Z	-0.17
1	17	Y	0.00
1	17	X	-0.42



Sheet #	96
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	10/17/14
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier 12_Ped_A4.rcp			Date

Line #	Bearing #	Dir	Load kips
1	18	Z	-0.17
1	18	Y	0.00
1	18	X	-0.42
1	19	Z	-0.17
1	19	Y	0.00
1	19	X	-0.42
1	20	X	-0.42
1	20	Z	-0.17
1	20	Y	0.00
1	21	Y	0.59
1	21	Z	-0.17
1	21	X	-0.42
2	11	Z	-0.21
2	11	Y	-0.69
2	11	X	-0.53
2	12	Z	-0.21
2	12	Y	0.00
2	12	X	-0.53
2	13	Z	-0.21
2	13	Y	0.00
2	13	X	-0.53
2	14	Z	-0.21
2	14	Y	0.00
2	14	X	-0.53
2	15	Z	-0.21
2	15	Y	0.00
2	15	X	-0.53
2	16	X	-0.53
2	16	Y	0.00
2	16	Z	-0.21
2	17	Z	-0.21
2	17	Y	0.00
2	17	X	-0.53
2	18	Z	-0.21
2	18	Y	0.00
2	18	X	-0.53
2	19	Z	-0.21
2	19	Y	0.00
2	19	X	-0.53
2	20	Z	-0.21
2	20	Y	0.00
2	20	X	-0.53
2	21	Z	-0.21
2	21	Y	0.69
2	21	X	-0.53



Sheet #	97
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM	
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	10/17/14	
		www.bentley.com Phone: 1-800-778-4277	Checked		
File Name:	Pier 12_Ped_A4.rcp			Date	

Loadcase ID: WL19 Name: EB -30

Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	10	Z	-0.22
1	10	Y	-0.53
1	10	X	-0.37
1	11	Z	-0.22
1	11	Y	0.00
1	11	X	-0.37
1	12	Z	-0.22
1	12	Y	0.00
1	12	X	-0.37
1	13	Z	-0.22
1	13	Y	0.00
1	13	X	-0.37
1	14	Z	-0.22
1	14	Y	0.00
1	14	X	-0.37
1	15	X	-0.37
1	15	Y	0.00
1	15	Z	-0.22
1	16	Z	-0.22
1	16	Y	0.00
1	16	X	-0.37
1	17	Z	-0.22
1	17	Y	0.00
1	17	X	-0.37
1	18	Z	-0.22
1	18	Y	0.00
1	18	X	-0.37
1	19	Z	-0.22
1	19	Y	0.00
1	19	X	-0.37
1	20	X	-0.37
1	20	Z	-0.22
1	20	Y	0.00
1	21	Y	0.53
1	21	Z	-0.22



Sheet #	98
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM	
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	10/17/14	
		www.bentley.com Phone: 1-800-778-4277	Checked		
File Name:	Pier 12_Ped_A4.rcp			Date	

Line #	Bearing #	Dir	Load kips
1	21	X	-0.37
2	11	Z	-0.28
2	11	Y	-0.62
2	11	X	-0.48
2	12	Z	-0.28
2	12	Y	0.00
2	12	X	-0.48
2	13	Z	-0.28
2	13	Y	0.00
2	13	X	-0.48
2	14	Z	-0.28
2	14	Y	0.00
2	14	X	-0.48
2	15	Z	-0.28
2	15	Y	0.00
2	15	X	-0.48
2	16	X	-0.48
2	16	Y	0.00
2	16	Z	-0.28
2	17	Z	-0.28
2	17	Y	0.00
2	17	X	-0.48
2	18	Z	-0.28
2	18	Y	0.00
2	18	X	-0.48
2	19	Z	-0.28
2	19	Y	0.00
2	19	X	-0.48
2	20	Z	-0.28
2	20	Y	0.00
2	20	X	-0.48
2	21	Z	-0.28
2	21	Y	0.62
2	21	X	-0.48

Loadcase ID: WL20 Name: EB -45

Multiplier = 1.000



Sheet #	99
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	10/17/14
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier 12_Ped_A4.rcp			Date

Bearing loads

Line #	Bearing #	Dir	Load kips
1	10	Z	-0.24
1	10	Y	-0.40
1	10	X	-0.28
1	11	Z	-0.24
1	11	Y	0.00
1	11	X	-0.28
1	12	Z	-0.24
1	12	Y	0.00
1	12	X	-0.28
1	13	Z	-0.24
1	13	Y	0.00
1	13	X	-0.28
1	14	Z	-0.24
1	14	Y	0.00
1	14	X	-0.28
1	15	X	-0.28
1	15	Y	0.00
1	15	Z	-0.24
1	16	Z	-0.24
1	16	Y	0.00
1	16	X	-0.28
1	17	Z	-0.24
1	17	Y	0.00
1	17	X	-0.28
1	18	Z	-0.24
1	18	Y	0.00
1	18	X	-0.28
1	19	Z	-0.24
1	19	Y	0.00
1	19	X	-0.28
1	20	X	-0.28
1	20	Z	-0.24
1	20	Y	0.00
1	21	Y	0.40
1	21	Z	-0.24
1	21	X	-0.28
2	11	Z	-0.31
2	11	Y	-0.47
2	11	X	-0.36
2	12	Z	-0.31
2	12	Y	0.00
2	12	X	-0.36
2	13	Z	-0.31
2	13	Y	0.00
2	13	X	-0.36
2	14	Z	-0.31

Units: US (English)

Design Code: AASHTO LRFD



Sheet #	100
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	10/17/14
		www.bentley.com Phone: 1-800-778-4277	Checked	
File Name:	Pier 12_Ped_A4.rcp			Date

Line #	Bearing #	Dir	Load kips
2	14	Y	0.00
2	14	X	-0.36
2	15	Z	-0.31
2	15	Y	0.00
2	15	X	-0.36
2	16	X	-0.36
2	16	Y	0.00
2	16	Z	-0.31
2	17	Z	-0.31
2	17	Y	0.00
2	17	X	-0.36
2	18	Z	-0.31
2	18	Y	0.00
2	18	X	-0.36
2	19	Z	-0.31
2	19	Y	0.00
2	19	X	-0.36
2	20	Z	-0.31
2	20	Y	0.00
2	20	X	-0.36
2	21	Z	-0.31
2	21	Y	0.47
2	21	X	-0.36

Loadcase ID: WL21 Name: EB -60

Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	10	Z	-0.23
1	10	Y	-0.17
1	10	X	-0.12
1	11	Z	-0.23
1	11	Y	0.00
1	11	X	-0.12

Units: US (English)

Design Code: AASHTO LRFD



Sheet #	101
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	10/17/14
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier 12_Ped_A4.rcp	Date		

Line #	Bearing #	Dir	Load kips
1	12	Z	-0.23
1	12	Y	0.00
1	12	X	-0.12
1	13	Z	-0.23
1	13	Y	0.00
1	13	X	-0.12
1	14	Z	-0.23
1	14	Y	0.00
1	14	X	-0.12
1	15	X	-0.12
1	15	Y	0.00
1	15	Z	-0.23
1	16	Z	-0.23
1	16	Y	0.00
1	16	X	-0.12
1	17	Z	-0.23
1	17	Y	0.00
1	17	X	-0.12
1	18	Z	-0.23
1	18	Y	0.00
1	18	X	-0.12
1	19	Z	-0.23
1	19	Y	0.00
1	19	X	-0.12
1	20	X	-0.12
1	20	Z	-0.23
1	20	Y	0.00
1	21	Y	0.17
1	21	Z	-0.23
1	21	X	-0.12
2	11	Z	-0.29
2	11	Y	-0.20
2	11	X	-0.15
2	12	Z	-0.29
2	12	Y	0.00
2	12	X	-0.15
2	13	Z	-0.29
2	13	Y	0.00
2	13	X	-0.15
2	14	Z	-0.29
2	14	Y	0.00
2	14	X	-0.15
2	15	Z	-0.29
2	15	Y	0.00
2	15	X	-0.15
2	16	X	-0.15
2	16	Y	0.00
2	16	Z	-0.29
2	17	Z	-0.29

Units: US (English)

Design Code: AASHTO LRFD



Sheet #	102
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	10/17/14
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier 12_Ped_A4.rcp	Date		

Line #	Bearing #	Dir	Load kips
	17	Y	0.00
2	17	X	-0.15
2	18	Z	-0.29
2	18	Y	0.00
2	18	X	-0.15
2	19	Z	-0.29
2	19	Y	0.00
2	19	X	-0.15
2	20	Z	-0.29
2	20	Y	0.00
2	20	X	-0.15
2	21	Z	-0.29
2	21	Y	0.20
2	21	X	-0.15

Loadcase ID: WL22 Name: EB -75

Multiplier = 1.000

Bearing loads

Line #	Bearing #	Dir	Load kips
1	10	Z	-0.22
1	10	Y	-0.02
1	10	X	-0.02
1	11	Z	-0.22
1	11	Y	0.00
1	11	X	-0.02
1	12	Z	-0.22
1	12	Y	0.00
1	12	X	-0.02
1	13	Z	-0.22
1	13	Y	0.00
1	13	X	-0.02
1	14	Z	-0.22
1	14	Y	0.00
1	14	X	-0.02

Units: US (English)

Design Code: AASHTO LRFD



Sheet #	103
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	10/17/14
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier 12_Ped_A4.rcp			Date

Line #	Bearing #	Dir	Load kips
1	15	X	-0.02
1	15	Y	0.00
1	15	Z	-0.22
1	16	Z	-0.22
1	16	Y	0.00
1	16	X	-0.02
1	17	Z	-0.22
1	17	Y	0.00
1	17	X	-0.02
1	18	Z	-0.22
1	18	Y	0.00
1	18	X	-0.02
1	19	Z	-0.22
1	19	Y	0.00
1	19	X	-0.02
1	20	X	-0.02
1	20	Z	-0.22
1	20	Y	0.00
1	21	Y	0.02
1	21	Z	-0.22
1	21	X	-0.02
2	11	Z	-0.29
2	11	Y	-0.03
2	11	X	-0.02
2	12	Z	-0.29
2	12	Y	0.00
2	12	X	-0.02
2	13	Z	-0.29
2	13	Y	0.00
2	13	X	-0.02
2	14	Z	-0.29
2	14	Y	0.00
2	14	X	-0.02
2	15	Z	-0.29
2	15	Y	0.00
2	15	X	-0.02
2	16	X	-0.02
2	16	Y	0.00
2	16	Z	-0.29
2	17	Z	-0.29
2	17	Y	0.00
2	17	X	-0.02
2	18	Z	-0.29
2	18	Y	0.00
2	18	X	-0.02
2	19	Z	-0.29
2	19	Y	0.00
2	19	X	-0.02
2	20	Z	-0.29

Units: US (English)

Design Code: AASHTO LRFD



Sheet #	104
Job #	59219

Program:	LEAP® RC-PIER® V8i (SELECTseries 5)	SE Client Licenses	Designed	CAM
Version:	12.01.00.57	Copyright © Bentley Systems, Inc. 2012	Date	10/17/14
		www.bentley.com	Phone: 1-800-778-4277	Checked
File Name:	Pier 12_Ped_A4.rcp			Date

Line #	Bearing #	Dir	Load kips
	20	Y	0.00
2	20	X	-0.02
2	21	Z	-0.29
2	21	Y	0.03
2	21	X	-0.02

Selected load groups
 STRENGTH GROUP I
 STRENGTH GROUP III
 STRENGTH GROUP V
 SERVICE GROUP I

Units: US (English)

Design Code: AASHTO LRFD

CONSTRUCTION COST ESTIMATES

Bridge Development Report Cost Estimating

Effective 6/03/2009

Step One: Estimate Component Items

Utilizing the cost provided herein, develop the cost estimate for each bridge type under consideration.

A. Bridge Substructure

1. Prestressed Concrete Piling, (furnished and installed)			
**Size of Piling	Cost per Lin. Foot	Quantity	Cost
18" (Driven Plumb or 1" Batter)	\$55	3000	\$165,000
18" (Driven Battered)	\$75		
24" (Driven Plumb or 1" Batter)	\$85		
24" (Driven Battered)	\$95		
30" (Driven Plumb or 1" Batter)	\$120		
30" (Driven Battered)	\$140		
Embedded Data Collector (each)	\$2,000		
Subtotal			\$165,000

* When heavy mild steel reinforcing is used in the pile head add \$250 to the piling cost.

** When microsilica is used add \$6/LF to the piling cost

2. Steel Piling, (furnished and installed)			
Size of Piling	Cost per Lin. Foot	Quantity	Cost
14" x 73 H Section	\$70		
14" x 89 H Section	\$90		
20" Pipe Pile	\$105		
24" Pipe Pile	\$114		
30" Pipe Pile	\$160		
Subtotal			

3. Drilled Shaft (Total in-place cost)			
Dia. (on land, casing salvaged)	Cost per Lin. Foot	Quantity	Cost
3 ft	\$250		
4 ft	\$430		
5 ft	\$510		
6 ft	\$630		
7 ft	\$750		
Dia. (in water, casing salvaged)	Cost per Lin. Foot	Quantity	Cost
3 ft	\$320		
4 ft	\$500		
5 ft	\$600		
6 ft	\$690		
7 ft	\$800		
8 ft	\$1,100		
Dia. (in water, permanent casing)	Cost per Lin. Foot	Quantity	Cost
3 ft	\$460		
4 ft	\$625		
5 ft	\$750		
6 ft	\$950		
7 ft	\$1,100		
8 ft	\$1,500		
9 ft	\$1,800		
Subtotal			

A. Bridge Substructure (continued)

4. Sheet Piling Walls			
Size (Prestressed Concrete)	Cost per Lin. Foot	Quantity	Cost
10" x 30"	\$80		
12" x 30"	\$90		
Type (Steel)	Cost per Sq. Foot	Quantity	Cost
Permanent Cantilever Wall	\$24		
Permanent Anchored Wall ¹	\$36		
Temporary Cantilever Wall	\$14		
Temporary Anchored Wall ¹	\$22		
Soil Anchors	Cost per Anchor	Quantity	Cost
Permanent	\$3,200		
Temporary	\$2,800		
Subtotal			

¹ Includes the cost of waler steel, for permanent/temporary walls and concrete face for permanent walls.

5. Cofferdam Footing (Cofferdam and Seal Concrete)	
Prorate the cost provided herein based on area and depth of water. A cofferdam footing having the following attributes cost \$600,000: Area 63 ft.H37.25 ft.; Depth of seal 5 ft.; Depth of water over the footing 16 ft.	
Subtotal	

6. Substructure Concrete			
Type	Cost per Cubic Yard	Quantity	Cost
Concrete	\$500		
Mass Concrete	\$500	950	\$475,000
Seal Concrete	\$425		
Bulkhead Concrete	\$630		
Shell Fill	\$30		
Subtotal			\$475,000

Admixtures: For Calcium Nitrite add \$40/cy (@4.5 gal/cy)and for For silica fume, metakaolin or ultrafine fly ash add \$40/cy (@ 60 lb./cy) when cast-in-place and \$48/cy when precast

7. Reinforcing Steel			
Type	Cost per Pound	Quantity	Cost
Reinforcing Steel	\$0.90	142500	\$128,250
Subtotal			\$128,250

Substructure Subtotal \$768,250

B. Bridge Superstructure

1. Bearing Material			
Type	Cost per Cubic Foot	Quantity	Cost
Neoprene Bearing Pads	\$650	11.333	\$7,366
Multitrotational Bearings (kips)	Cost per Each	Quantity	Cost
1- 250	\$3,000		
251- 500	\$4,100		
501- 750	\$5,700		
751-1000	\$6,000		
1001-1250	\$6,800		
1251-1500	\$8,000		
1501-1750	\$9,000		
1751-2000	\$11,000		
>2000	\$14,000		
Subtotal			\$7,366

2. Bridge Girders			
Structural Steel (includes coating)	Cost per Pound	Quantity	Cost
*Rolled Wide Flange Sections, straight	\$1.35		
*Rolled Wide Flange Sections, curved	\$1.70		
*Plate Girders, Straight	\$1.40		
*Plate Girders, Curved	\$1.65		
*Box Girders, Straight	\$1.70		
*Box Girders, Curved	\$1.80		
* When weathering steel (uncoated) is used reduce the price by \$0.04per pound. Inorganic zinc coating systems have an expected life cycle of 20 years.			
Prestressed Concrete Girders	Cost per Lin. Foot	Quantity	Cost
Fl. Inverted Tee 16" ¹	\$80		
Fl. Inverted Tee 20"	\$90		
Fl. Inverted Tee 24" ¹	\$105		
Fl. Tub (U-Beam) 48" ¹	\$700		
Fl. Tub (U-Beam) 54"	\$750		
Fl. Tub (U-Beam) 63"	\$800		
Fl. Tub (U-Beam) 72"	\$900		
Solid Flat Slab (36"x15")	\$220		
Solid Flat Slab (36"x18")	\$230		
Solid Flat Slab (48"x12")	\$160		
Solid Flat Slab (60"x12")	\$170		
Solid Flat Slab (72"x12")	\$180		
Solid Flat Slab (57"x16")	\$150		
Florida-I; 36	\$190		
Florida-I; 45	\$205	4445	\$911,225
Florida-I; 54	\$220		
Florida-I; 63	\$235		
Florida-I; 72	\$250		
Florida-I; 78	\$270		
Florida-I; 84	\$320		
Haunched Florida-I; 78	\$600		
Haunched Florida-I; 84	\$750		
Subtotal			\$911,225

¹ Price is based on ability to furnish products without any conversions of casting beds and without purchasing of forms. If these conditions do not exist, add the following cost: Inverted Tee - \$202,000; Fl. Tub - \$403,000

B. Bridge Superstructure (continued)

3. Cast-in-Place Superstructure Concrete			
Type	Cost per Cubic Yard	Quantity	Cost
Box Girder Concrete, Straight	\$950		
Box Girder Concrete, Curved	\$1,100		
Deck Concrete	\$600	824	\$494,400
Precast Deck Overlay Concrete Class IV	\$600		
Subtotal			\$494,400

4. Concrete for Precast Segmental Box Girders, Cantilever Construction			
Concrete Cost by Deck Area	Cost per Cubic Yard	Quantity	Cost
≤ 300,000 SF	\$925		
> 500,000 SF	\$900		
Values Between (var. linearly)	\$875		
Subtotal			

5. Reinforcing Steel			
Type	Cost per Pound	Quantity	Cost
Reinforcing Steel	\$0.60	168920	\$101,352
Subtotal			\$101,352

6. Post-Tensioning Steel			
Type	Cost per Pound	Quantity	Cost
Strand, Longitudinal	\$2.50		
Strand, Transverse	\$4.00		
Bars	\$6.00		
Subtotal			

7. Railings and Barriers			
Type	Cost per Lin. Foot	Quantity	Cost
Traffic Railing ¹	\$70		
Pedestrian/Bicycle Railings:	\$70	4445	\$311,150
Concrete Parapet (27") ¹	\$65	4445	\$288,925
Single Bullet Railing ¹	\$25		
Double Bullet Railing ¹	\$35		
Triple Bullet Railing ¹	\$45		
Picket Railing (42") steel	\$61		
Picket Railing (42") aluminum	\$45		
Picket Railing (54") steel	\$95		
Picket Railing (42") aluminum	\$50		
1 combine cost of Bullet Railings with concrete parapet or Traffic Railing, as appropriate.		Subtotal	\$600,075

8. Expansion Joints			
Type	Cost per Lin. Foot	Quantity	Cost
Strip Seal	\$360	270	\$97,200
Finger Joint <6"	\$850		
Finger Joint >6"	\$1,500		
Modular 6"	\$500		
Modular 8"	\$700		
Modular 12"	\$900		
Subtotal			\$97,200

Superstructure Subtotal **\$2,211,618**

C. Miscellaneous Items

1. MSE Walls

Type	Cost per Sq. Foot	Quantity	Cost
Permanent	\$25		
Temporary	\$14		
Walls Subtotal			

2. Sound Barriers

Type	Cost per Sq. Foot	Quantity	Cost
Post and Panel Sound Barriers	\$20		
Sound Barrier Subtotal			

3. Detour Bridges

Type	Cost per Sq. Foot	Quantity	Cost
Acrow Detour Bridge	\$55		
Detour Bridge Subtotal			

The cost to construct a detour bridge using FDOT supplied components is provided herein. The cost is for the bridge proper. Excluded from this cost is the following: Approach work; Surfacing; Guardrail.

Unadjusted Total \$2,979,868

Step Two: Estimate Conditional Variables and Cost per Square Foot

After developing the total cost estimate utilizing the unit cost, modify the cost to account for site condition variables. If appropriate, the cost will be modified by the following variables:

Conditional Variables	% Increase/ Decrease	Cost (+/-)
Rural construction, decrease cost by 6 %.	6%	\$178,792
Urban construction, increase cost by 6 %.*		
For construction over water, increase cost by 3 %.	3%	\$89,396
Phased construction or widening, increase by 20 %.**		
	9%	\$268,188

*Broward, Miami-Dade, Duval, Hillsborough, Orange, Palm Beach, and Pinellas counties)

** Phased construction is defined as construction over traffic or construction requiring multiple phases to complete the construction of the entire cross section of the bridge. The 20 percent premium is applied to the effected units of the superstructure and/or substructure.

Substructure Subtotal	\$768,250
Superstructure Subtotal	\$2,211,618
Walls Subtotal	
Sound Barrier Subtotal	
Detour Bridge Subtotal	
Conditional Variables	\$268,188
Total Cost	\$3,248,057

Total Square Feet of Deck 33334

Cost per Square Foot	\$97
Cost per Linear Foot	\$23,200

Design Aid for Determination of Reinforcing Steel

In the absence of better information, use the following quantities of reinforcing steel per cubic yard of concrete.

Location	Pounds of Steel	Cubic Yds.	Tot. Pounds
Pile Abutments	135		
Pile Bents	145		
Single Column Piers >25'	210		
Single Column Piers <25'	150	950	142,500
Multiple Column Piers >25'	215		
Multiple Column Piers <25'	195		
Bascule Piers	110		
Standard Deck Slabs	205	824	168,920
Isotropic Deck Slabs	125		
Concrete Box Girders, Pier Seg	225		
Concrete Box Girders, Typ. Seg	165		
Flat Slabs @ 30ft & 15" Deep	220		

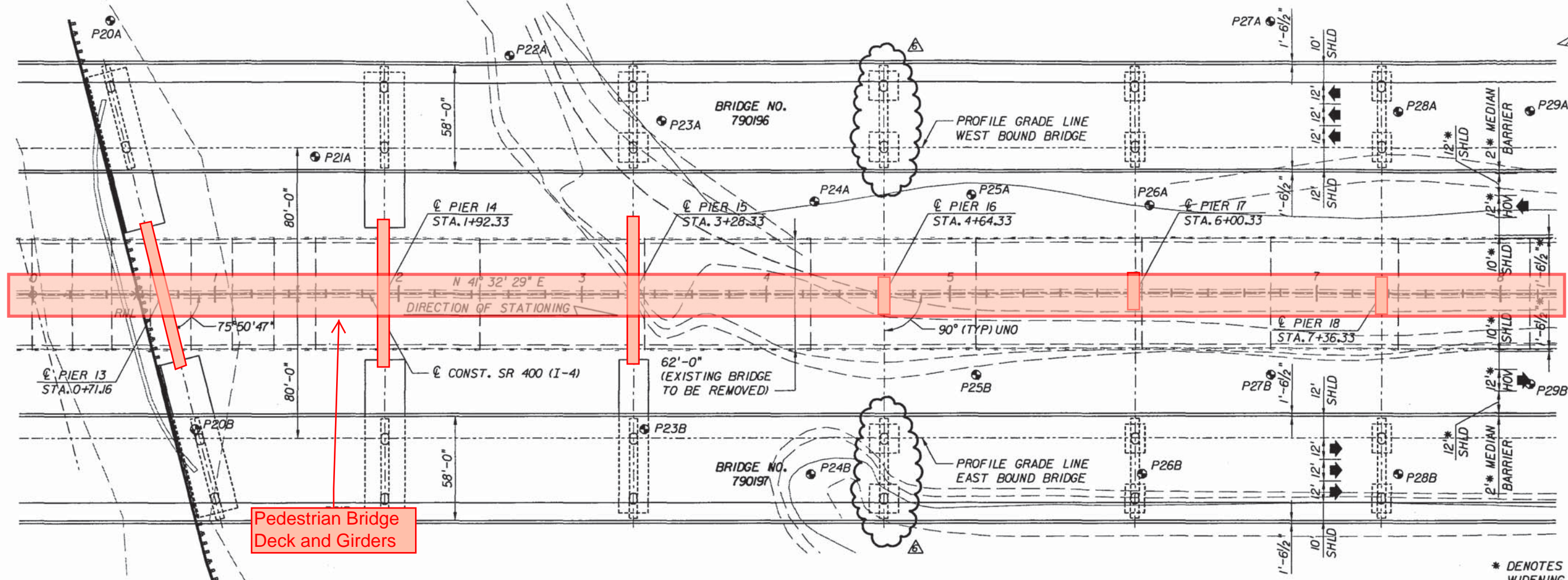
Step Three: Cost Estimate Comparison to Historical Bridge Cost

The final step is a confirmation of the cost estimate by comparison with historic bridge cost based on a cost per square foot. These total cost numbers are calculated exclusively for the bridge cost as defined in the General Section of this chapter. Price computed by Steps 1 and 2 should be generally within the range of cost as supplied herein. If the cost falls outside the provided range, good justification should be provided.

Bridge Superstructure Type	Total Cost per Square Foot	
	Low	High
Short Span Bridges:		
* Reinforced Concrete Flat Slab- Simple Span	\$92	\$160
* Pre-cast Concrete Slab - Simple Span	\$81	\$200
Medium Span Bridges:		
*Concrete Deck / Steel Girder - Simple Span	\$125	\$142
*Concrete Deck / Steel Girder - Continuous Span	\$135	\$170
* Concrete Deck / Prestressed Girder - Simple Span	\$66	\$145
*Concrete Deck / Prestressed Girder - Continuous Span	\$83	\$211
*Concrete Deck / Steel Box Girder - Span range from 150' to 280' (for curvature, add 15% premium)	\$100	\$165
Segmental Concrete Box Girders - Cantilever Construction Span range from 150' to 280'	\$130	\$160
Steel Box Deck/Girder		
Movable Bridge - Bascule Spans & Piers	\$1,800	\$2,000
Demolition Costs:		
Typical	\$35	\$60
Bascule	\$60	\$70
Project Type		
Widening (Construction Only)	\$85	\$160

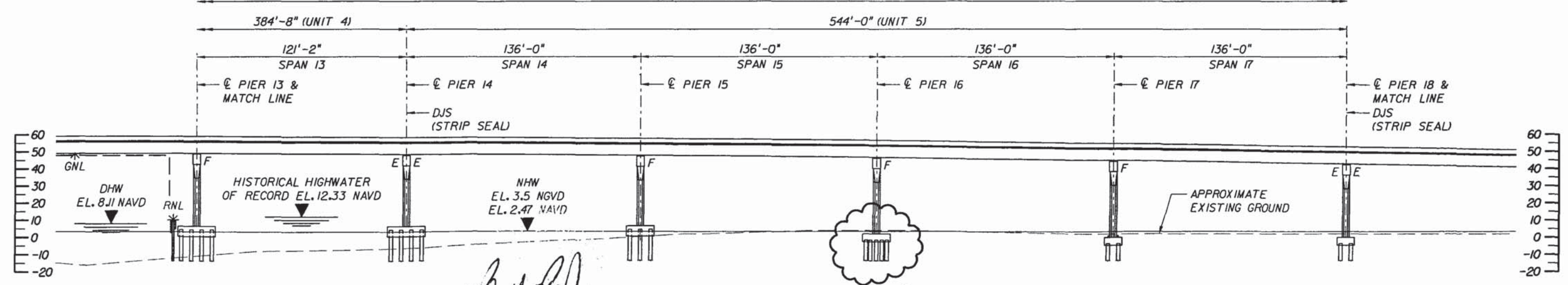
* Increase the cost by twenty percent for phased construction

Estimated Cost per Square Foot \$97



PARTIAL PLAN

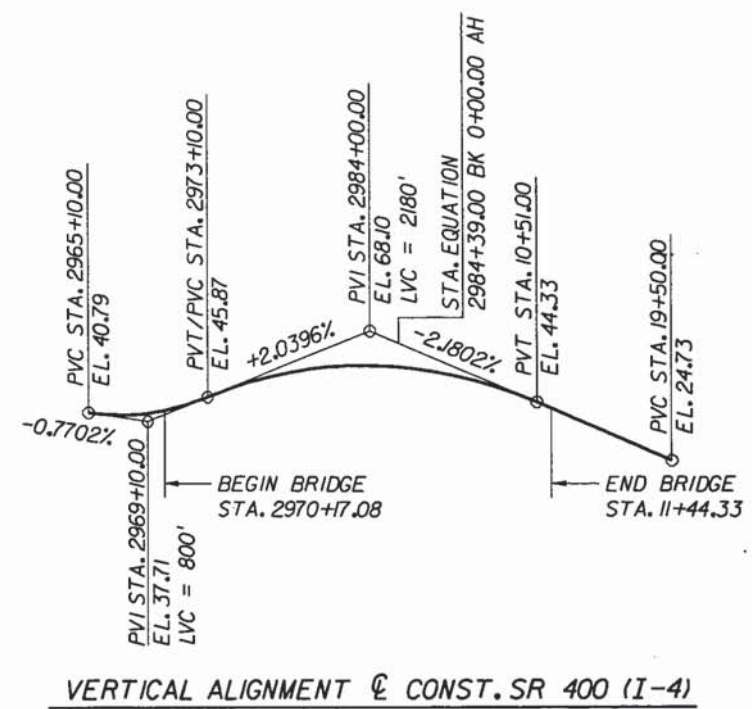
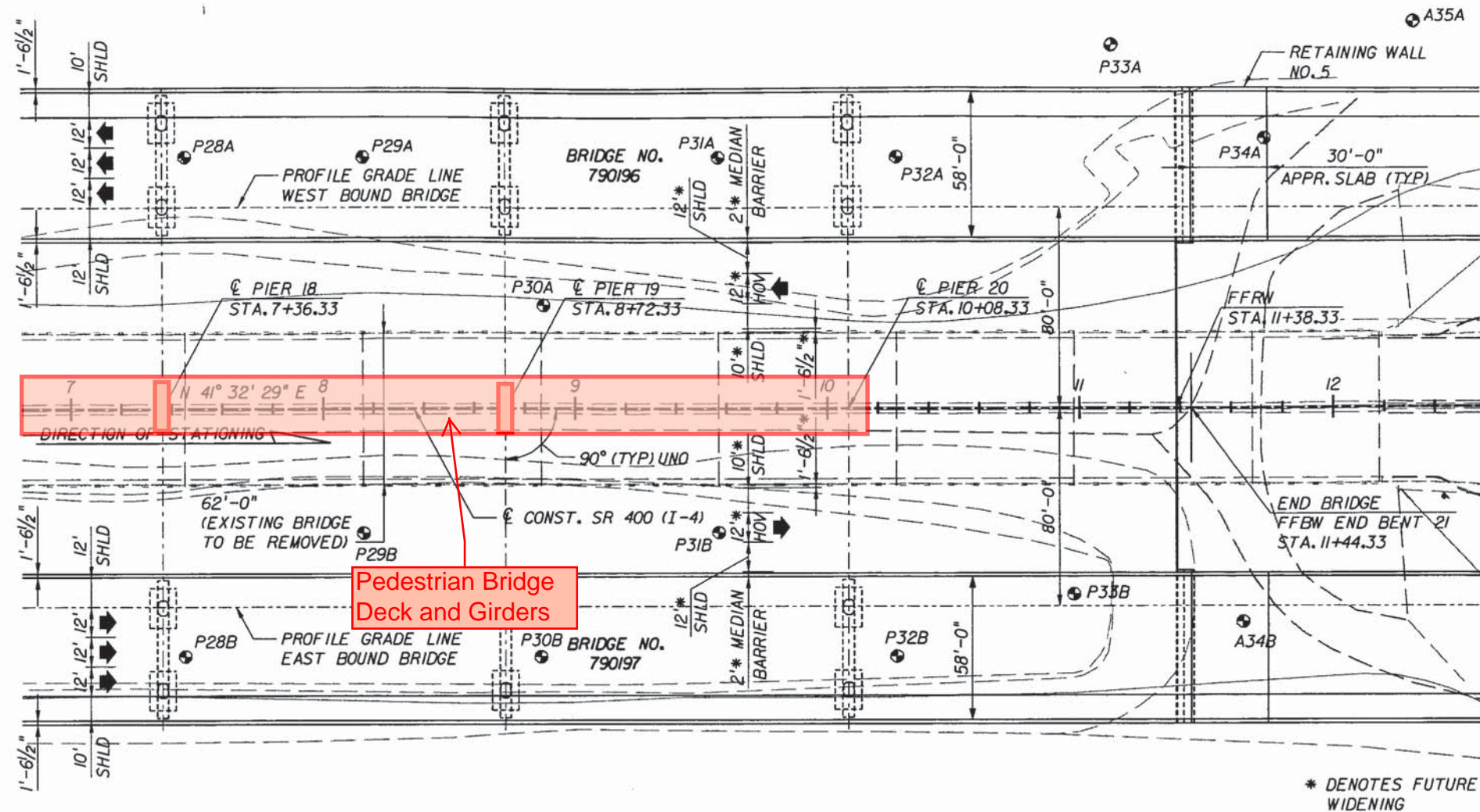
2566'-3" (OVERALL BRIDGE LENGTH)



PARTIAL ELEVATION

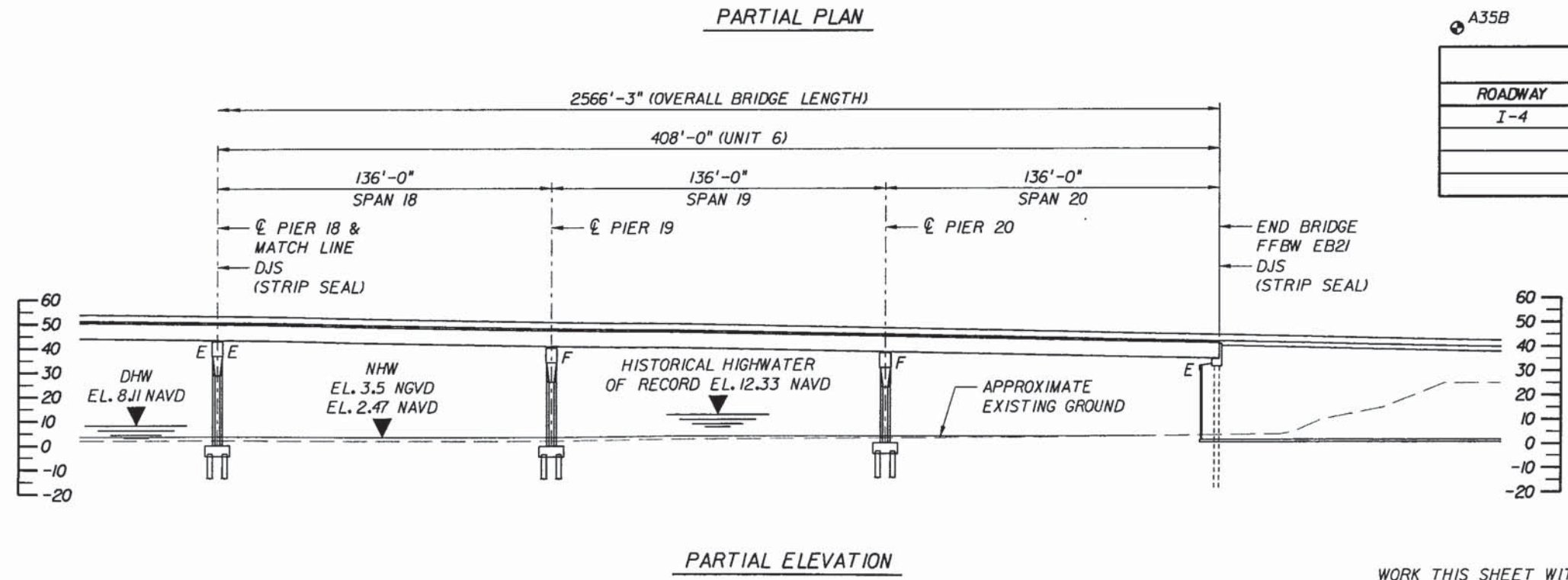
WORK THIS SHEET WITH SHEET(S) C-1, C-2 & C-4. BRIDGE NO'S. 790196 & 790197

REVISIONS				NAMES		DATES		ENGINEER OF RECORD			FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	NAME	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME	SHEET NO.		
7/01	RBA	△ FENDER SYSTEM REVISIONS				03/01	CJK	URS URS CORPORATION SOUTHERN 7650 W. COURTNEY CAMPBELL CSWY. TAMPA, FLORIDA 33607-1462 NO. 00000002	SR 400 (I-4)	VOLUSIA & SEMINOLE	242702-1-52-01	S.R. 400 (I-4) OVER US 17-92 & ST. JOHN'S RIVER	C-3		
8/01	RBA	△ REVISE FOOTING PIER 16			03/01	RBA									
8/01	RBA	△ ADD CLOUD PIER 16			03/01	BWJ									
					03/01	R.B. ANDERSON									



TRAFFIC DATA

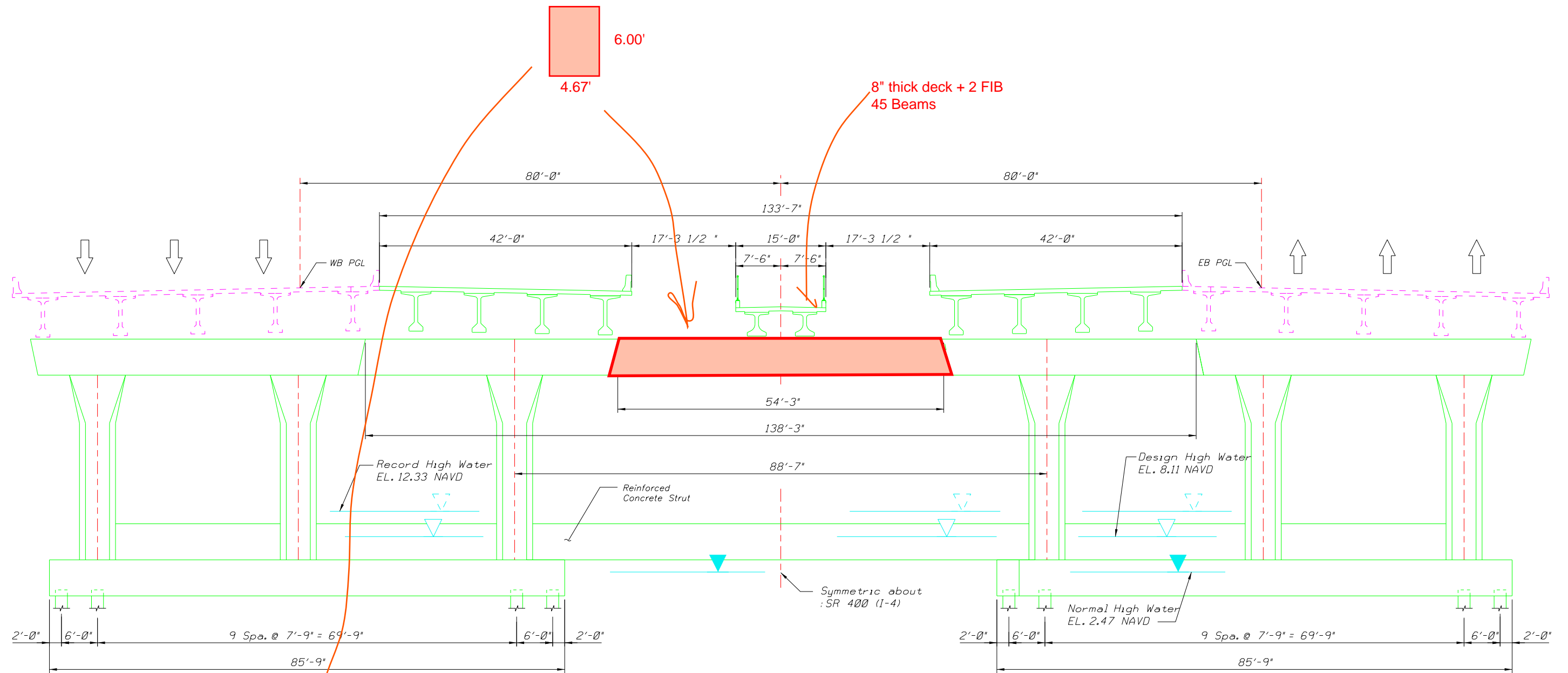
ROADWAY	AADT YEAR 2000	AADT YEAR 2020	DESIGN SPEED	% TRUCKS
I-4	42900	55300	70 MPH	10



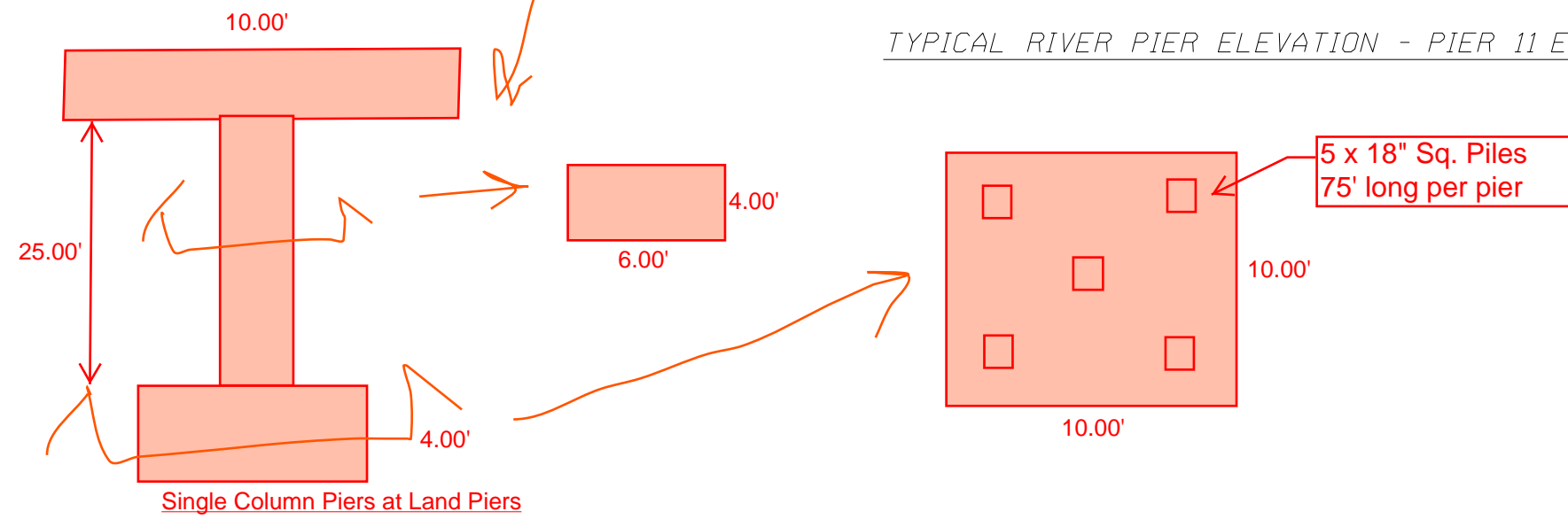
Handwritten signature and date: 6/21/01

WORK THIS SHEET WITH SHEET(S) C-1 TO C-3. BRIDGE NO'S. 790196 & 790197

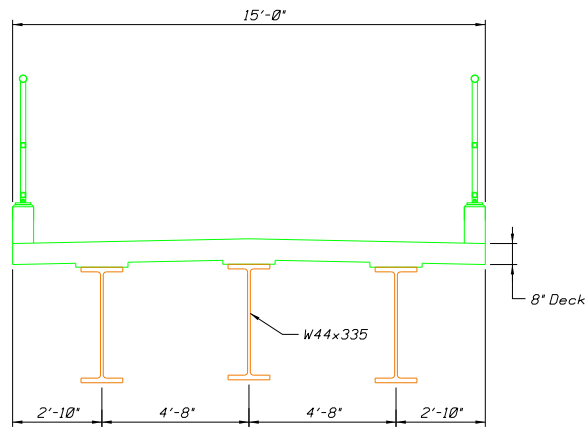
REVISIONS						DRAWN BY		ENGINEER OF RECORD		FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	NAME	DATES	URS	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME		SHEET NO.
						CJK	03/01	URS CORPORATION SOUTHERN	SR 400	VOLUSIA & SEMINOLE	242702-1-52-01	PLAN AND ELEVATION (4) BRIDGE NO'S. 790196 & 790197		
						RBA	03/01	7650 W. COURTNEY CAMPBELL CSWY.	(I-4)			S.R. 400 (I-4) OVER US 17-92 & ST. JOHN'S RIVER		C-4
						BWJ	03/01	TAMPA, FLORIDA 33607-1462						
						R.B. ANDERSON		NO. 00000002						



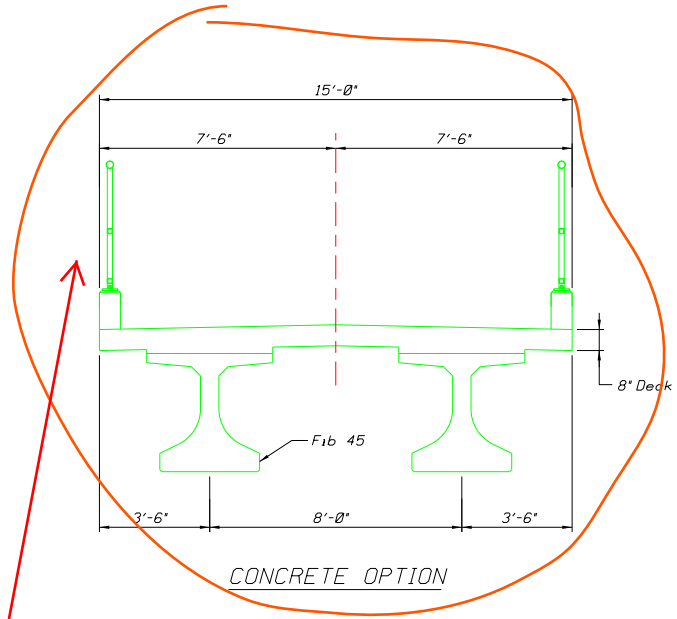
TYPICAL RIVER PIER ELEVATION - PIER 11 EB & WB



BRIDGE NOS. 790196 & 790197



STEEL OPTION



CONCRETE OPTION

Include Pedestrian/
Bicycle Railing

Bridge Development Report Cost Estimating

Effective 6/03/2009

Step One: Estimate Component Items

Utilizing the cost provided herein, develop the cost estimate for each bridge type under consideration.

A. Bridge Substructure

1. Prestressed Concrete Piling, (furnished and installed)			
**Size of Piling	Cost per Lin. Foot	Quantity	Cost
18" (Driven Plumb or 1" Batter)	\$55	3000	\$165,000
18" (Driven Battered)	\$75		
24" (Driven Plumb or 1" Batter)	\$85		
24" (Driven Battered)	\$95		
30" (Driven Plumb or 1" Batter)	\$120		
30" (Driven Battered)	\$140		
Embedded Data Collector (each)	\$2,000		
Subtotal			\$165,000

* When heavy mild steel reinforcing is used in the pile head add \$250 to the piling cost.

** When microsilica is used add \$6/LF to the piling cost

2. Steel Piling, (furnished and installed)			
Size of Piling	Cost per Lin. Foot	Quantity	Cost
14" x 73 H Section	\$70		
14" x 89 H Section	\$90		
20" Pipe Pile	\$105		
24" Pipe Pile	\$114		
30" Pipe Pile	\$160		
Subtotal			

3. Drilled Shaft (Total in-place cost)			
Dia. (on land, casing salvaged)	Cost per Lin. Foot	Quantity	Cost
3 ft	\$250		
4 ft	\$430		
5 ft	\$510		
6 ft	\$630		
7 ft	\$750		
Dia. (in water, casing salvaged)	Cost per Lin. Foot	Quantity	Cost
3 ft	\$320		
4 ft	\$500		
5 ft	\$600		
6 ft	\$690		
7 ft	\$800		
8 ft	\$1,100		
Dia. (in water, permanent casing)	Cost per Lin. Foot	Quantity	Cost
3 ft	\$460		
4 ft	\$625		
5 ft	\$750		
6 ft	\$950		
7 ft	\$1,100		
8 ft	\$1,500		
9 ft	\$1,800		
Subtotal			

A. Bridge Substructure (continued)

4. Sheet Piling Walls			
Size (Prestressed Concrete)	Cost per Lin. Foot	Quantity	Cost
10" x 30"	\$80		
12" x 30"	\$90		
Type (Steel)	Cost per Sq. Foot	Quantity	Cost
Permanent Cantilever Wall	\$24		
Permanent Anchored Wall ¹	\$36		
Temporary Cantilever Wall	\$14		
Temporary Anchored Wall ¹	\$22		
Soil Anchors	Cost per Anchor	Quantity	Cost
Permanent	\$3,200		
Temporary	\$2,800		
Subtotal			

¹ Includes the cost of waler steel, for permanent/temporary walls and concrete face for permanent walls.

5. Cofferdam Footing (Cofferdam and Seal Concrete)	
Prorate the cost provided herein based on area and depth of water. A cofferdam footing having the following attributes cost \$600,000: Area 63 ft.H37.25 ft.; Depth of seal 5 ft.; Depth of water over the footing 16 ft.	
Subtotal	

6. Substructure Concrete			
Type	Cost per Cubic Yard	Quantity	Cost
Concrete	\$500		
Mass Concrete	\$500	379	\$189,659
Seal Concrete	\$425		
Bulkhead Concrete	\$630		
Shell Fill	\$30		
Subtotal			\$189,659

Admixtures: For Calcium Nitrite add \$40/cy (@4.5 gal/cy) and for silica fume, metakaolin or ultrafine fly ash add \$40/cy (@ 60 lb./cy) when cast-in-place and \$48/cy when precast

7. Reinforcing Steel			
Type	Cost per Pound	Quantity	Cost
Reinforcing Steel	\$0.90	79,657	\$71,691
Subtotal			\$71,691

Substructure Subtotal \$426,350

B. Bridge Superstructure

1. Bearing Material			
Type	Cost per Cubic Foot	Quantity	Cost
Neoprene Bearing Pads	\$650	31.6008	\$20,541
Multitrotational Bearings (kips)	Cost per Each	Quantity	Cost
1- 250	\$3,000		
251- 500	\$4,100		
501- 750	\$5,700		
751-1000	\$6,000		
1001-1250	\$6,800		
1251-1500	\$8,000		
1501-1750	\$9,000		
1751-2000	\$11,000		
>2000	\$14,000		
Subtotal			\$20,541

2. Bridge Girders			
Structural Steel (includes coating)	Cost per Pound	Quantity	Cost
*Rolled Wide Flange Sections, straight	\$1.35	2304943.92	\$3,111,674
*Rolled Wide Flange Sections, curved	\$1.70		
*Plate Girders, Straight	\$1.40		
*Plate Girders, Curved	\$1.65		
*Box Girders, Straight	\$1.70		
*Box Girders, Curved	\$1.80		
* When weathering steel (uncoated) is used reduce the price by \$0.04per pound. Inorganic zinc coating systems have an expected life cycle of 20 years.			
Prestressed Concrete Girders	Cost per Lin. Foot	Quantity	Cost
Fl. Inverted Tee 16" ¹	\$80		
Fl. Inverted Tee 20"	\$90		
Fl. Inverted Tee 24" ¹	\$105		
Fl. Tub (U-Beam) 48" ¹	\$700		
Fl. Tub (U-Beam) 54"	\$750		
Fl. Tub (U-Beam) 63"	\$800		
Fl. Tub (U-Beam) 72"	\$900		
Solid Flat Slab (36"x15")	\$220		
Solid Flat Slab (36"x18")	\$230		
Solid Flat Slab (48"x12")	\$160		
Solid Flat Slab (60"x12")	\$170		
Solid Flat Slab (72"x12")	\$180		
Solid Flat Slab (57"x16")	\$150		
Florida-I; 36	\$190		
Florida-I; 45	\$205		
Florida-I; 54	\$220		
Florida-I; 63	\$235		
Florida-I; 72	\$250		
Florida-I; 78	\$270		
Florida-I; 84	\$320		
Haunched Florida-I; 78	\$600		
Haunched Florida-I; 84	\$750		
Subtotal			\$3,111,674

¹ Price is based on ability to furnish products without any conversions of casting beds and without purchasing of forms. If these conditions do not exist, add the following cost: Inverted Tee - \$202,000; Fl. Tub - \$403,000

B. Bridge Superstructure (continued)

3. Cast-in-Place Superstructure Concrete			
Type	Cost per Cubic Yard	Quantity	Cost
Box Girder Concrete, Straight	\$950		
Box Girder Concrete, Curved	\$1,100		
Deck Concrete	\$600	823.055556	\$493,833
Precast Deck Overlay Concrete Class IV	\$600		
		Subtotal	\$493,833

4. Concrete for Precast Segmental Box Girders, Cantilever Construction			
Concrete Cost by Deck Area	Cost per Cubic Yard	Quantity	Cost
≤ 300,000 SF	\$925		
> 500,000 SF	\$900		
Values Between (var. linearly)	\$875		
		Subtotal	

5. Reinforcing Steel			
Type	Cost per Pound	Quantity	Cost
Reinforcing Steel	\$0.60	168,726	\$101,236
		Subtotal	\$101,236

6. Post-Tensioning Steel			
Type	Cost per Pound	Quantity	Cost
Strand, Longitudinal	\$2.50		
Strand, Transverse	\$4.00		
Bars	\$6.00		
		Subtotal	

7. Railings and Barriers			
Type	Cost per Lin. Foot	Quantity	Cost
Traffic Railing ¹	\$70		
Pedestrian/Bicycle Railings:	\$70	4444.5	\$311,115
Concrete Parapet (27") ¹	\$65	4444.5	\$288,893
Single Bullet Railing ¹	\$25		
Double Bullet Railing ¹	\$35		
Triple Bullet Railing ¹	\$45		
Picket Railing (42") steel	\$61		
Picket Railing (42") aluminum	\$45		
Picket Railing (54") steel	\$95		
Picket Railing (42") aluminum	\$50		
1 combine cost of Bullet Railings with concrete parapet or Traffic Railing, as appropriate.		Subtotal	\$600,008

8. Expansion Joints			
Type	Cost per Lin. Foot	Quantity	Cost
Strip Seal	\$360	270	\$97,200
Finger Joint <6"	\$850		
Finger Joint >6"	\$1,500		
Modular 6"	\$500		
Modular 8"	\$700		
Modular 12"	\$900		
		Subtotal	\$97,200

Superstructure Subtotal \$4,424,491

C. Miscellaneous Items

1. MSE Walls

Type	Cost per Sq. Foot	Quantity	Cost
Permanent	\$25		
Temporary	\$14		
Walls Subtotal			

2. Sound Barriers

Type	Cost per Sq. Foot	Quantity	Cost
Post and Panel Sound Barriers	\$20		
Sound Barrier Subtotal			

3. Detour Bridges

Type	Cost per Sq. Foot	Quantity	Cost
Acrow Detour Bridge	\$55		
Detour Bridge Subtotal			

The cost to construct a detour bridge using FDOT supplied components is provided herein. The cost is for the bridge proper. Excluded from this cost is the following: Approach work; Surfacing; Guardrail.

Unadjusted Total \$4,871,382

Step Two: Estimate Conditional Variables and Cost per Square Foot

After developing the total cost estimate utilizing the unit cost, modify the cost to account for site condition variables. If appropriate, the cost will be modified by the following variables:

Conditional Variables	% Increase/ Decrease	Cost (+/-)
Rural construction, decrease cost by 6 %.	6%	\$292,283
Urban construction, increase cost by 6 % . *		
For construction over water, increase cost by 3 %.	3%	\$146,141
Phased construction or widening, increase by 20 %.**		
	9%	\$438,424

*Broward, Miami-Dade, Duval, Hillsborough, Orange, Palm Beach, and Pinellas counties)

** Phased construction is defined as construction over traffic or construction requiring multiple phases to complete the construction of the entire cross section of the bridge. The 20 percent premium is applied to the effected units of the superstructure and/or substructure.

Substructure Subtotal	\$426,350
Superstructure Subtotal	\$4,424,491
Walls Subtotal	
Sound Barrier Subtotal	
Detour Bridge Subtotal	
Conditional Variables	\$438,424
Total Cost	\$5,309,807

Total Square Feet of Deck 33333.75

Cost per Square Foot \$159
Cost per Linear Foot \$37,927

Design Aid for Determination of Reinforcing Steel

In the absence of better information, use the following quantities of reinforcing steel per cubic yard of concrete.

Location	Pounds of Steel	Cubic Yds.	Tot. Pounds
Pile Abutments	135		
Pile Bents	145		
Single Column Piers >25'	210	379.318519	79,657
Single Column Piers <25'	150		
Multiple Column Piers >25'	215		
Multiple Column Piers <25'	195		
Bascule Piers	110		
Standard Deck Slabs	205	823.055556	168,726
Isotropic Deck Slabs	125		
Concrete Box Girders, Pier Seg	225		
Concrete Box Girders, Typ. Seg	165		
Flat Slabs @ 30ft & 15" Deep	220		

Step Three: Cost Estimate Comparison to Historical Bridge Cost

The final step is a confirmation of the cost estimate by comparison with historic bridge cost based on a cost per square foot. These total cost numbers are calculated exclusively for the bridge cost as defined in the General Section of this chapter. Price computed by Steps 1 and 2 should be generally within the range of cost as supplied herein. If the cost falls outside the provided range, good justification should be provided.

Bridge Superstructure Type	Total Cost per Square Foot	
	Low	High
Short Span Bridges:		
* Reinforced Concrete Flat Slab- Simple Span	\$92	\$160
* Pre-cast Concrete Slab - Simple Span	\$81	\$200
Medium Span Bridges:		
*Concrete Deck / Steel Girder - Simple Span	\$125	\$142
*Concrete Deck / Steel Girder - Continuous Span	\$135	\$170
* Concrete Deck / Prestressed Girder - Simple Span	\$66	\$145
*Concrete Deck / Prestressed Girder - Continuous Span	\$83	\$211
*Concrete Deck / Steel Box Girder - Span range from 150' to 280' (for curvature, add 15% premium)	\$100	\$165
Segmental Concrete Box Girders - Cantilever Construction Span range from 150' to 280'	\$130	\$160
Steel Box Deck/Girder		
Movable Bridge - Bascule Spans & Piers	\$1,800	\$2,000
Demolition Costs:		
Typical	\$35	\$60
Bascule	\$60	\$70
Project Type		
Widening (Construction Only)	\$85	\$160

* Increase the cost by twenty percent for phased construction

Estimated Cost per Square Foot \$159

For			Job No.
Made by	CAM	Checked by	Backcheck by
Date	8/12/2014	Date	Date
			Sheet No.



Long Span Pedestrian Bridges

Bridge	State	Type	Main Span	Overall Length	Deck Area	Bid Price	Unit Price	Deck Width
Springwater Trail Pedestrian Bridge	OR	Prefab Truss	175	175	2100	\$607,000	\$289	12
I-5 Beltline Pedestrian Bridge	OR	Cable-Stayed	203	503	7042	\$2,035,000	\$289	14
Springwater Trail (McLoughlin Blvd.) Pedestrian Bridge	OR	Through-Arch	241	302	3624	\$1,350,000	\$373	12
McKenzie River Bridge	OR	Suspension	430	670	12395	\$2,500,000	\$202	18.5
DeFazio Pedestrian Bridge	OR	Suspension	338	606	8484	\$2,645,000	\$312	14
Bob Kerry Pedestrian Bridge	NE	Cable-Stayed	506	3000	45000	\$22,000,000	\$489	15
Liberty Bridge in Falls Park	SC	Suspension	345	345	4140	\$4,500,000	\$1,087	12
Cross Seminole Trail Bridge	FL	Prefab Truss	374	419	5866		\$0	14

St Johns River Trail Bridge	FL	Cable-Stayed	700	1200	18000	\$6,840,000	\$380	15
St Johns River Trail Bridge*	FL	Cable-Stayed	800	900	13500	\$5,130,000	\$380	15

Does not include MSE Wall Cost (Approx. \$1.5 M)

Bridge Development Report Cost Estimating

Effective 6/03/2009

Step One: Estimate Component Items

Utilizing the cost provided herein, develop the cost estimate for each bridge type under consideration.

A. Bridge Substructure

1. Prestressed Concrete Piling, (furnished and installed)			
**Size of Piling	Cost per Lin. Foot	Quantity	Cost
18" (Driven Plumb or 1" Batter)	\$55	150	\$12,750
18" (Driven Battered)	\$75		
24" (Driven Plumb or 1" Batter)	\$85		
24" (Driven Battered)	\$95		
30" (Driven Plumb or 1" Batter)	\$120		
30" (Driven Battered)	\$140		
Embedded Data Collector (each)	\$2,000		

* When heavy mild steel reinforcing is used in the pile head add \$250 to the piling cost.

** When microsilica is used add \$6/LF to the piling cost

2. Steel Piling, (furnished and installed)			
Size of Piling	Cost per Lin. Foot	Quantity	Cost
14" x 73 H Section	\$70	150	\$10,500
14" x 89 H Section	\$90		
20" Pipe Pile	\$105		
24" Pipe Pile	\$114		
30" Pipe Pile	\$160		

3. Drilled Shaft (Total in-place cost)			
Dia. (on land, casing salvaged)	Cost per Lin. Foot	Quantity	Cost
3 ft	\$250	150	\$37,500
4 ft	\$430		
5 ft	\$510		
6 ft	\$630		
7 ft	\$750		
Dia. (in water, casing salvaged)	Cost per Lin. Foot	Quantity	Cost
3 ft	\$320	150	\$48,000
4 ft	\$500		
5 ft	\$600		
6 ft	\$690		
7 ft	\$800		
8 ft	\$1,100		
Dia. (in water, permanent casing)	Cost per Lin. Foot	Quantity	Cost
3 ft	\$460	150	\$69,000
4 ft	\$625		
5 ft	\$750		
6 ft	\$950		
7 ft	\$1,100		
8 ft	\$1,500		
9 ft	\$1,800		
		Subtotal	\$69,000

A. Bridge Substructure (continued)

4. Sheet Piling Walls			
Size (Prestressed Concrete)	Cost per Lin. Foot	Quantity	Cost
10" x 30"	\$80		
12" x 30"	\$90		
Type (Steel)	Cost per Sq. Foot	Quantity	Cost
Permanent Cantilever Wall	\$24		
Permanent Anchored Wall ¹	\$36		
Temporary Cantilever Wall	\$14		
Temporary Anchored Wall ¹	\$22		
Soil Anchors	Cost per Anchor	Quantity	Cost
Permanent	\$3,200		
Temporary	\$2,800		
Subtotal			

¹ Includes the cost of waler steel, for permanent/temporary walls and concrete face for permanent walls.

5. Cofferdam Footing (Cofferdam and Seal Concrete)	
Prorate the cost provided herein based on area and depth of water. A cofferdam footing having the following attributes cost \$600,000: Area 63 ft.H37.25 ft.; Depth of seal 5 ft.; Depth of water over the footing 16 ft.	
Subtotal	

6. Substructure Concrete			
Type	Cost per Cubic Yard	Quantity	Cost
Concrete	\$500		
Mass Concrete	\$500	720	\$360,000
Seal Concrete	\$425		
Bulkhead Concrete	\$630		
Shell Fill	\$30		
Subtotal			\$360,000

Admixtures: For Calcium Nitrite add \$40/cy (@4.5 gal/cy)and for For silica fume, metakaolin or ultrafine fly ash add \$40/cy (@ 60 lb./cy) when cast-in-place and \$48/cy when precast

7. Reinforcing Steel			
Type	Cost per Pound	Quantity	Cost
Reinforcing Steel	\$0.90	105000	\$94,500
Subtotal			\$94,500

Substructure Subtotal \$467,250

B. Bridge Superstructure

1. Bearing Material			
Type	Cost per Cubic Foot	Quantity	Cost
Neoprene Bearing Pads	\$650	17.778	\$11,556
Multitrotational Bearings (kips)	Cost per Each	Quantity	Cost
1- 250	\$3,000		
251- 500	\$4,100		
501- 750	\$5,700		
751-1000	\$6,000		
1001-1250	\$6,800		
1251-1500	\$8,000		
1501-1750	\$9,000		
1751-2000	\$11,000		
>2000	\$14,000		
Subtotal			\$11,556

2. Bridge Girders			
Structural Steel (includes coating)	Cost per Pound	Quantity	Cost
*Rolled Wide Flange Sections, straight	\$1.35		
*Rolled Wide Flange Sections, curved	\$1.70		
*Plate Girders, Straight	\$1.40		
*Plate Girders, Curved	\$1.65		
*Box Girders, Straight	\$1.70		
*Box Girders, Curved	\$1.80		
* When weathering steel (uncoated) is used reduce the price by \$0.04per pound. Inorganic zinc coating systems have an expected life cycle of 20 years.			
Prestressed Concrete Girders	Cost per Lin. Foot	Quantity	Cost
Fl. Inverted Tee 16" ¹	\$80		
Fl. Inverted Tee 20"	\$90		
Fl. Inverted Tee 24" ¹	\$105		
Fl. Tub (U-Beam) 48" ¹	\$700		
Fl. Tub (U-Beam) 54"	\$750		
Fl. Tub (U-Beam) 63"	\$800		
Fl. Tub (U-Beam) 72"	\$900		
Solid Flat Slab (36"x15")	\$220		
Solid Flat Slab (36"x18")	\$230		
Solid Flat Slab (48"x12")	\$160		
Solid Flat Slab (60"x12")	\$170		
Solid Flat Slab (72"x12")	\$180		
Solid Flat Slab (57"x16")	\$150		
Florida-I; 36	\$190		
Florida-I; 45	\$205		
Florida-I; 54	\$220		
Florida-I; 63	\$235		
Florida-I; 72	\$250		
Florida-I; 78	\$270	2566.25	\$692,888
Florida-I; 84	\$320		
Haunched Florida-I; 78	\$600		
Haunched Florida-I; 84	\$750		
Subtotal			\$692,888

1 Price is based on ability to furnish products without any conversions of casting beds and without purchasing of forms. If these conditions do not exist, add the following cost: Inverted Tee - \$202,000; Fl. Tub - \$403,000

B. Bridge Superstructure (continued)

3. Cast-in-Place Superstructure Concrete			
Type	Cost per Cubic Yard	Quantity	Cost
Box Girder Concrete, Straight	\$950		
Box Girder Concrete, Curved	\$1,100		
Deck Concrete	\$600	949	\$569,400
Precast Deck Overlay Concrete Class IV	\$600		
Subtotal			\$569,400

4. Concrete for Precast Segmental Box Girders, Cantilever Construction			
Concrete Cost by Deck Area	Cost per Cubic Yard	Quantity	Cost
≤ 300,000 SF	\$925		
> 500,000 SF	\$900		
Values Between (var. linearly)	\$875		
Subtotal			

5. Reinforcing Steel			
Type	Cost per Pound	Quantity	Cost
Reinforcing Steel	\$0.60	194545	\$116,727
Subtotal			\$116,727

6. Post-Tensioning Steel			
Type	Cost per Pound	Quantity	Cost
Strand, Longitudinal	\$2.50		
Strand, Transverse	\$4.00		
Bars	\$6.00		
Subtotal			

7. Railings and Barriers			
Type	Cost per Lin. Foot	Quantity	Cost
Traffic Railing ¹	\$70		
Pedestrian/Bicycle Railings:	\$70	5132.5	\$359,275
Concrete Parapet (27") ¹	\$65	2566.25	\$166,806
Single Bullet Railing ¹	\$25		
Double Bullet Railing ¹	\$35		
Triple Bullet Railing ¹	\$45		
Picket Railing (42") steel	\$61		
Picket Railing (42") aluminum	\$45		
Picket Railing (54") steel	\$95		
Picket Railing (42") aluminum	\$50		
1 combine cost of Bullet Railings with concrete parapet or Traffic Railing, as appropriate.		Subtotal	\$526,081

8. Expansion Joints			
Type	Cost per Lin. Foot	Quantity	Cost
Strip Seal	\$360	295.75	\$106,470
Finger Joint <6"	\$850		
Finger Joint >6"	\$1,500		
Modular 6"	\$500		
Modular 8"	\$700		
Modular 12"	\$900		
Subtotal			\$106,470

Superstructure Subtotal **\$2,023,121**

C. Miscellaneous Items

1. MSE Walls

Type	Cost per Sq. Foot	Quantity	Cost
Permanent	\$25		
Temporary	\$14		
Walls Subtotal			

2. Sound Barriers

Type	Cost per Sq. Foot	Quantity	Cost
Post and Panel Sound Barriers	\$20		
Sound Barrier Subtotal			

3. Detour Bridges

Type	Cost per Sq. Foot	Quantity	Cost
Acrow Detour Bridge	\$55		
Detour Bridge Subtotal			

The cost to construct a detour bridge using FDOT supplied components is provided herein. The cost is for the bridge proper. Excluded from this cost is the following: Approach work; Surfacing; Guardrail.

Unadjusted Total \$2,490,371

Step Two: Estimate Conditional Variables and Cost per Square Foot

After developing the total cost estimate utilizing the unit cost, modify the cost to account for site condition variables. If appropriate, the cost will be modified by the following variables:

Conditional Variables	% Increase/ Decrease	Cost (+/-)
Rural construction, decrease cost by 6 %.	6%	\$149,422
Urban construction, increase cost by 6 %.*		
For construction over water, increase cost by 3 %.	3%	\$74,711
Phased construction or widening, increase by 20 %.**		
	9%	\$224,133

*Broward, Miami-Dade, Duval, Hillsborough, Orange, Palm Beach, and Pinellas counties)

** Phased construction is defined as construction over traffic or construction requiring multiple phases to complete the construction of the entire cross section of the bridge. The 20 percent premium is applied to the effected units of the superstructure and/or substructure.

Substructure Subtotal	\$467,250
Superstructure Subtotal	\$2,023,121
Walls Subtotal	
Sound Barrier Subtotal	
Detour Bridge Subtotal	
Conditional Variables	\$224,133
Total Cost	\$2,714,505

Total Square Feet of Deck 33334

Cost per Square Foot	\$81
Cost per Linear Foot	\$19,389

Design Aid for Determination of Reinforcing Steel

In the absence of better information, use the following quantities of reinforcing steel per cubic yard of concrete.

Location	Pounds of Steel	Cubic Yds.	Tot. Pounds
Pile Abutments	135		
Pile Bents	145	20	2,900
Single Column Piers >25'	210		
Single Column Piers <25'	150	700	105,000
Multiple Column Piers >25'	215		
Multiple Column Piers <25'	195		
Bascule Piers	110		
Standard Deck Slabs	205	949	194,545
Isotropic Deck Slabs	125		
Concrete Box Girders, Pier Seg	225		
Concrete Box Girders, Typ. Seg	165		
Flat Slabs @ 30ft & 15" Deep	220		

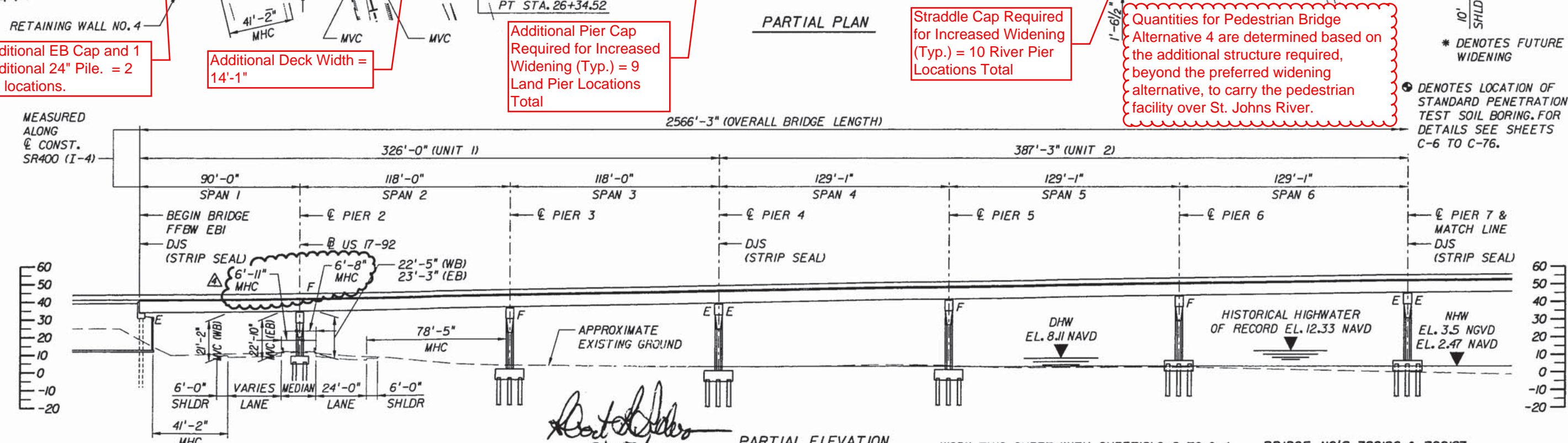
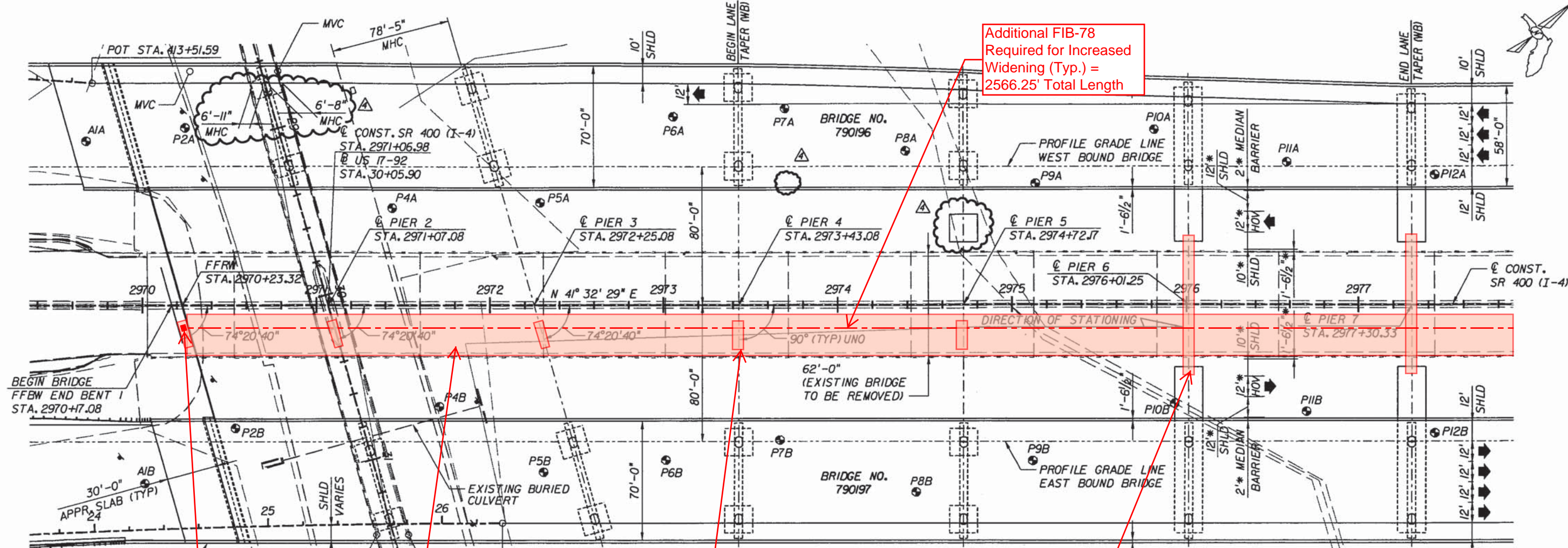
Step Three: Cost Estimate Comparison to Historical Bridge Cost

The final step is a confirmation of the cost estimate by comparison with historic bridge cost based on a cost per square foot. These total cost numbers are calculated exclusively for the bridge cost as defined in the General Section of this chapter. Price computed by Steps 1 and 2 should be generally within the range of cost as supplied herein. If the cost falls outside the provided range, good justification should be provided.

Bridge Superstructure Type	Total Cost per Square Foot	
	Low	High
Short Span Bridges:		
* Reinforced Concrete Flat Slab- Simple Span	\$92	\$160
* Pre-cast Concrete Slab - Simple Span	\$81	\$200
Medium Span Bridges:		
*Concrete Deck / Steel Girder - Simple Span	\$125	\$142
*Concrete Deck / Steel Girder - Continuous Span	\$135	\$170
* Concrete Deck / Prestressed Girder - Simple Span	\$66	\$145
*Concrete Deck / Prestressed Girder - Continuous Span	\$83	\$211
*Concrete Deck / Steel Box Girder - Span range from 150' to 280' (for curvature, add 15% premium)	\$100	\$165
Segmental Concrete Box Girders - Cantilever Construction Span range from 150' to 280'	\$130	\$160
Steel Box Deck/Girder		
Movable Bridge - Bascule Spans & Piers	\$1,800	\$2,000
Demolition Costs:		
Typical	\$35	\$60
Bascule	\$60	\$70
Project Type		
Widening (Construction Only)	\$85	\$160

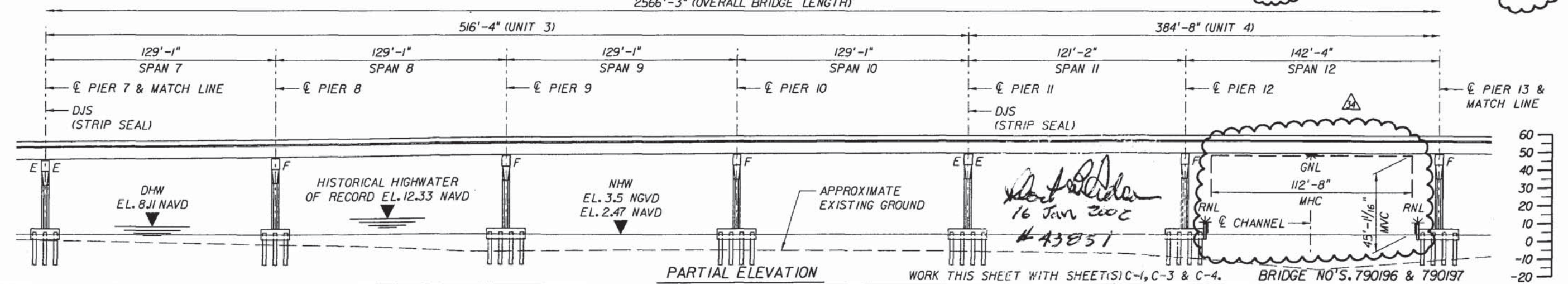
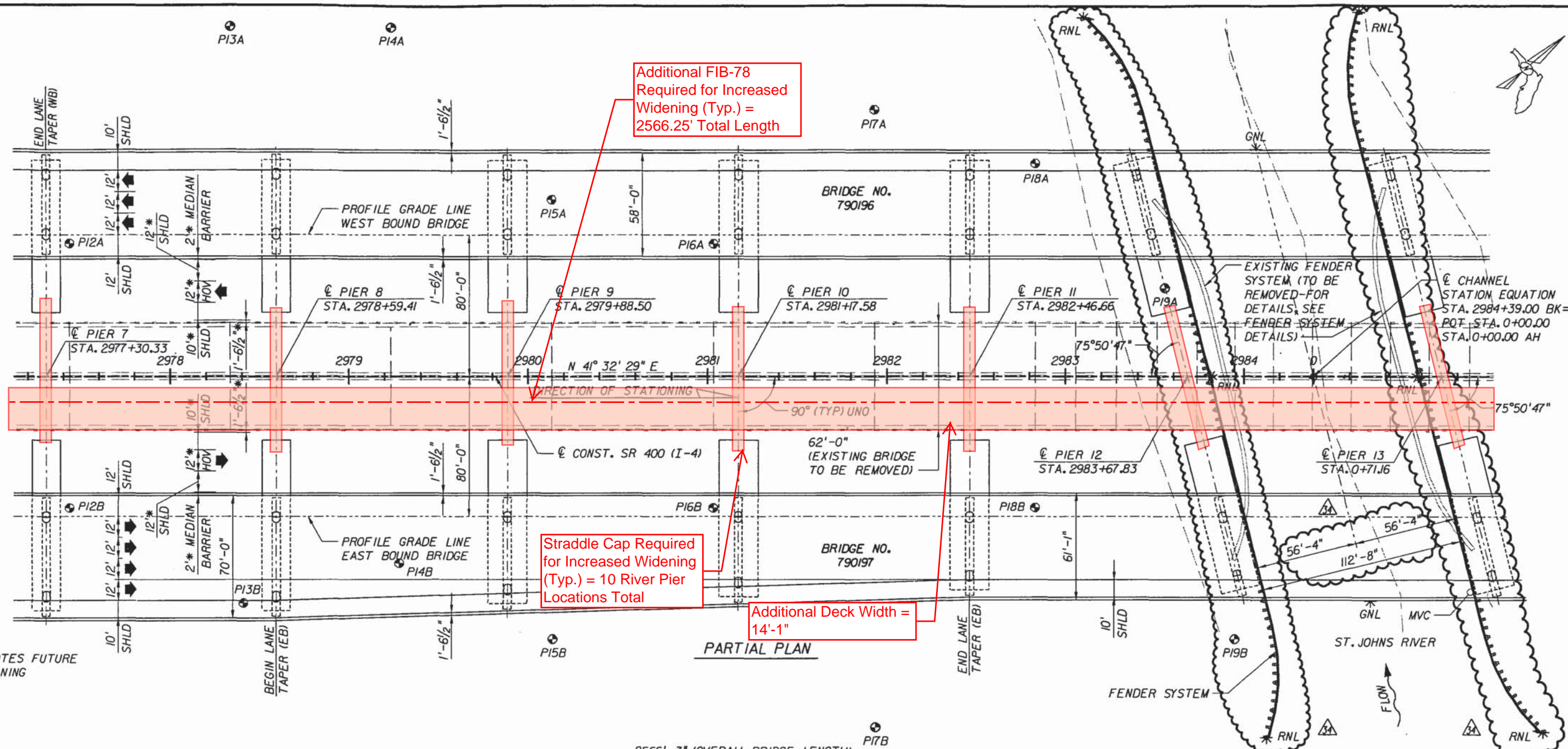
* Increase the cost by twenty percent for phased construction

Estimated Cost per Square Foot \$81



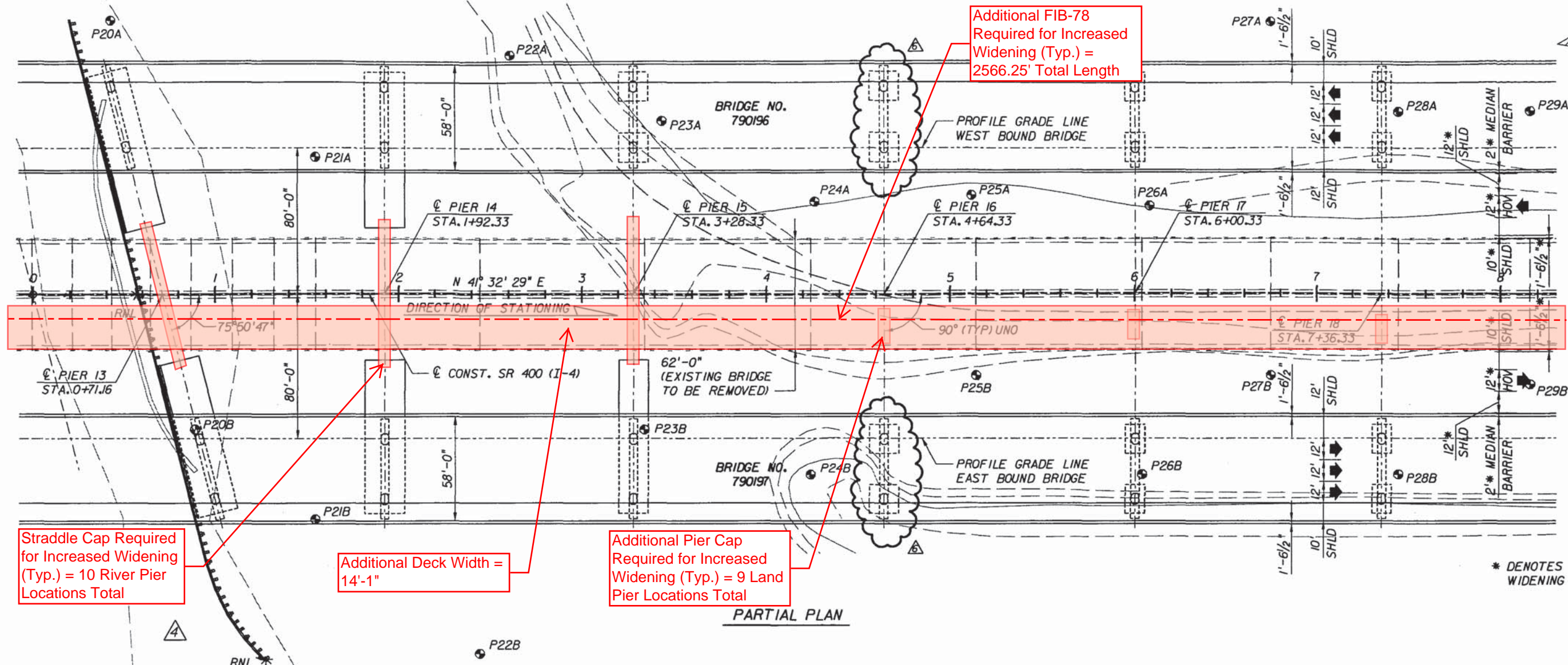
Robert Anderson
7/27/2001

REVISIONS				DRAWN BY		ENGINEER OF RECORD		FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE	
DATE	BY	DESCRIPTION	DATE	BY	NAME	DATE	UR	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME	
7/01	RBA	ADDED PIER SWB ULT. FOOTING			CJK	03/01	URS CORPORATION SOUTHERN	SR 400 (I-4)	VOLUSIA & SEMINOLE	242702-1-52-01	S.R. 400 (I-4) OVER US 17-92 & ST. JOHN'S RIVER	
					RBA	03/01	7650 W. COURTNEY CAMPBELL CSWY. TAMPA, FLORIDA 33607-1462 NO. 00000002				BRIDGE NO'S. 790196 & 790197	
					BWJ	03/01					BRIDGE NO'S. 790196 & 790197	
					R.B. ANDERSON						S.R. 400 (I-4) OVER US 17-92 & ST. JOHN'S RIVER	



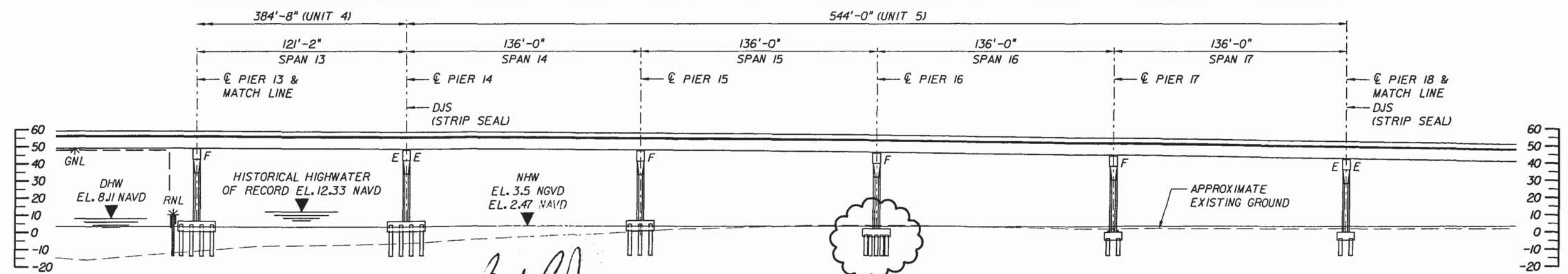
REVISIONS				NAMES		DATES		ENGINEER OF RECORD.			FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE:	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:		SHEET NO.		
12/01	RBA	REVISIONS - FENDER SYSTEM				03/01		SR 400 (I-4)	VOLUSIA & SEMINOLE	242702-1-52-01	S.R. 400 (I-4) OVER US 17-92 & ST. JOHN'S RIVER		C-2		
											PLAN AND ELEVATION (2) BRIDGE NO'S. 790196 & 790197				

E:\BRIDGES\ST. JOHN'S DESIGN BUILD RIVER BRIDGE\BGPBR02.DGN



PARTIAL PLAN

2566'-3" (OVERALL BRIDGE LENGTH)

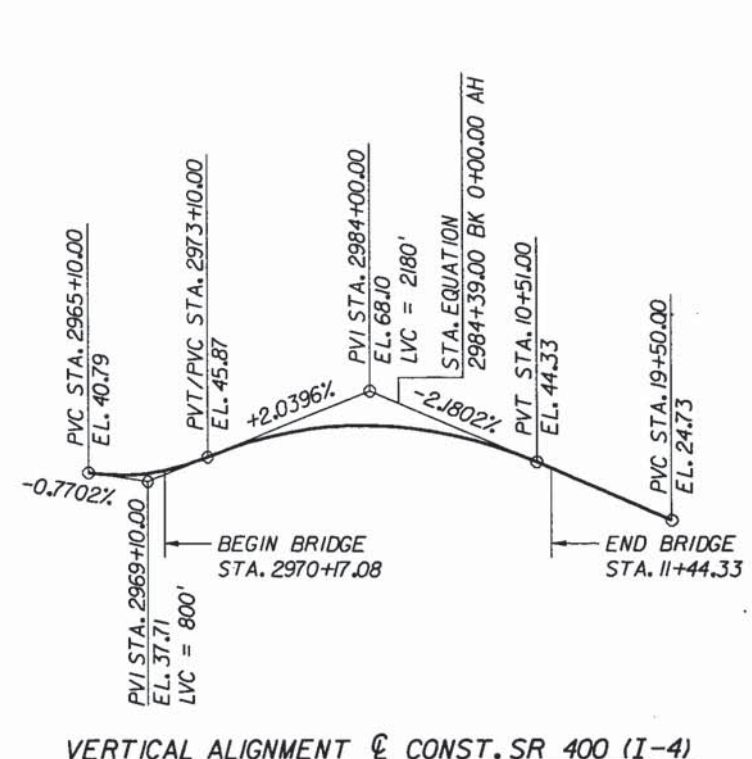
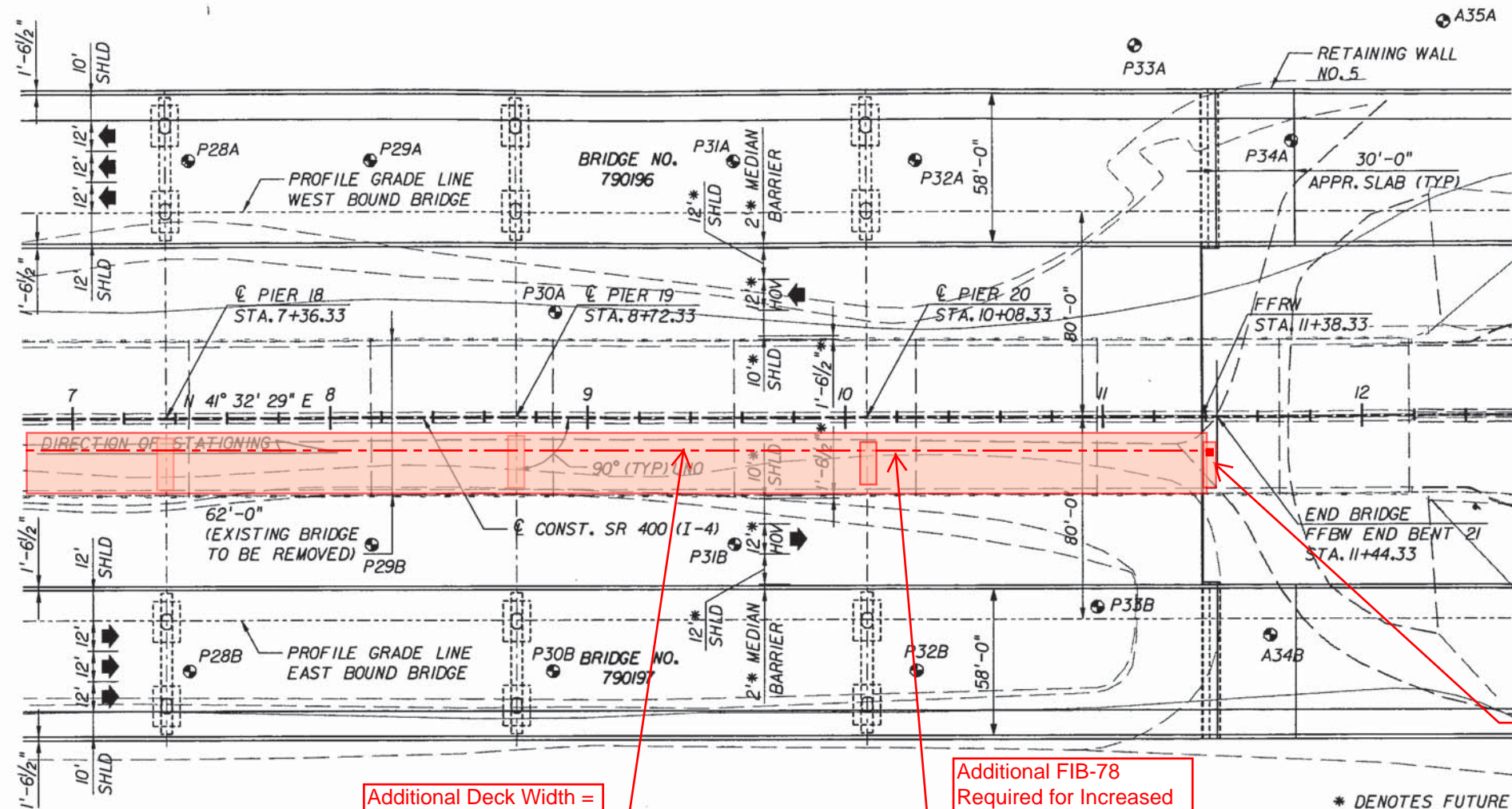


PARTIAL ELEVATION

Bob Anderson
31 Aug 2001

WORK THIS SHEET WITH SHEET(S) C-1, C-2 & C-4. BRIDGE NO'S. 790196 & 790197

REVISIONS				NAMES		DATES		ENGINEER OF RECORD			FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME	SHEET NO.			
7/01	RBA	△ FENDER SYSTEM REVISIONS				03/01	CJK	SR 400 (I-4)	VOLUSIA & SEMINOLE	242702-1-52-01	PLAN AND ELEVATION (3) BRIDGE NO'S. 790196 & 790197	C-3			
8/01	RBA	△ REVISE FOOTING PIER 16				03/01	RBA				S.R. 400 (I-4) OVER US 17-92 & ST. JOHN'S RIVER				
8/01	RBA	△ ADD CLOUD PIER 16				03/01	BWJ								
							R.B. ANDERSON								



Additional EB Cap and 1
Additional 24" Pile. = 2
EB locations.

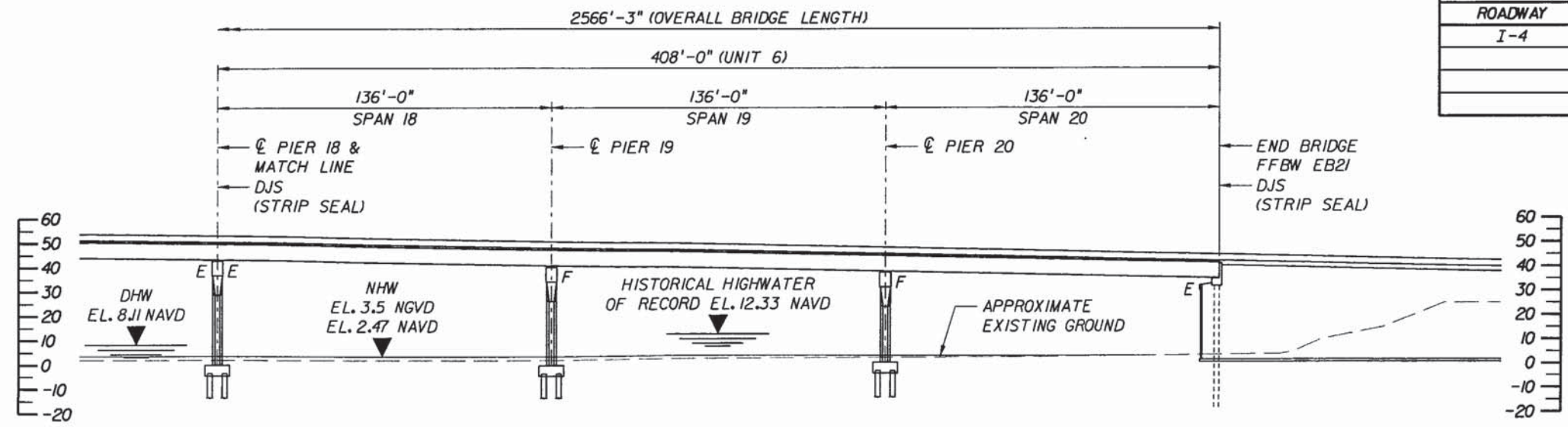
Additional Deck Width =
14'-1"

Additional FIB-78
Required for Increased
Widening (Typ.) =
2566.25' Total Length

* DENOTES FUTURE
WIDENING

PARTIAL PLAN

TRAFFIC DATA				
ROADWAY	AADT YEAR 2000	AADT YEAR 2020	DESIGN SPEED	% TRUCKS
I-4	42900	55300	70 MPH	10

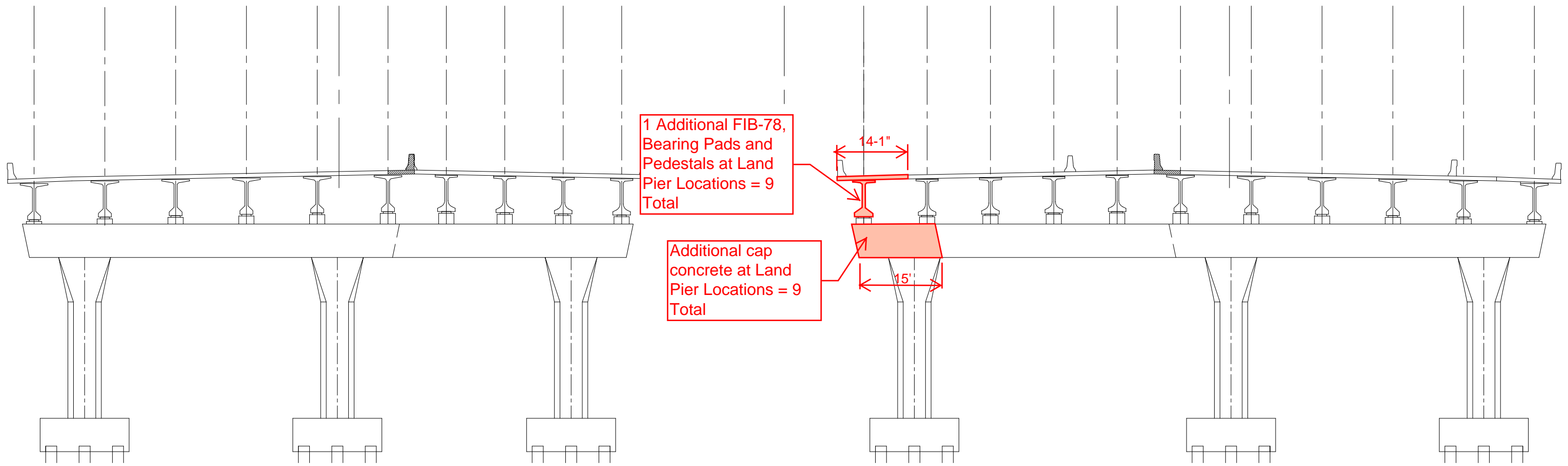


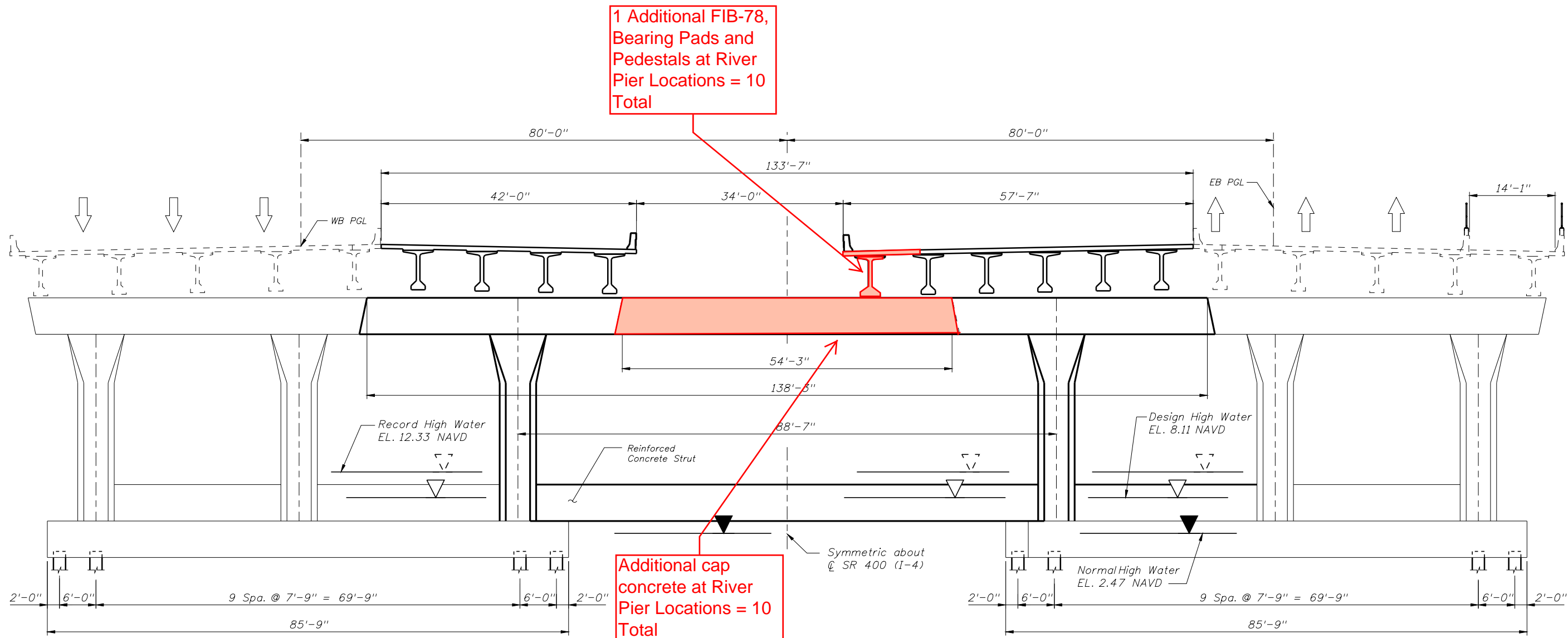
PARTIAL ELEVATION

WORK THIS SHEET WITH SHEET(S) C-1 TO C-3. BRIDGE NO'S. 790196 & 790197

Handwritten signature and date: 6/21/01

REVISIONS						ENGINEER OF RECORD:		FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE:	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	NAME	DATE	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:	
						CJK	03/01	SR 400	VOLUSIA	242702-1-52-01	S.R. 400 (I-4) OVER US 17-92 & ST. JOHN'S RIVER	
						RBA	03/01	(I-4)	& SEMINOLE			
						RBA	03/01					
						BWJ	03/01					
						R.B. ANDERSON						





TYPICAL RIVER PIER ELEVATION - PIER 11 EB & WB

BRIDGE NOS. 790196 & 790197

REVISIONS						ENGINEER OF RECORD: HNTB CORPORATION 610 CRESCENT EXECUTIVE CT SUITE 400 LAKE MARY, FL 32746 (407) 805-0355 CERT. OF AUTH. NO. 6500 COREY A. MARCHMAN, P.E. NO. 75452	FLORIDA DEPARTMENT OF TRANSPORTATION			I-4 PD&E STUDY TYPICAL SECTIONS SEGMENT 4	SHEET NO. 9 OF 11
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						400	SEMINOLE VOLUSIA	432100-1-22-01			