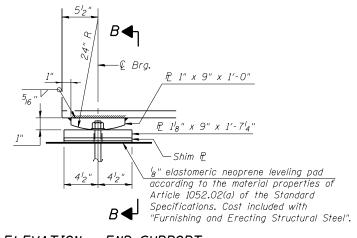
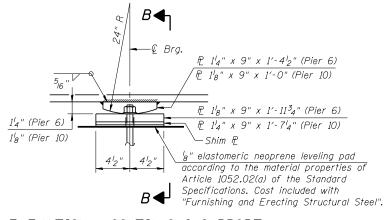


(11 required, see table)



ELEVATION - END SUPPORT

(1 required at Ramp F Beam R1, S Brg. Pier 6, Span 6) (1 required at Ramp F Beam R4, S Brg. Pier 6, Span 6) (1 required at Ramp F Beam R5, S Brg. Pier 6, Span 6) (1 required at Ramp F Beam R1, N Brg. Pier 6, Span 7)

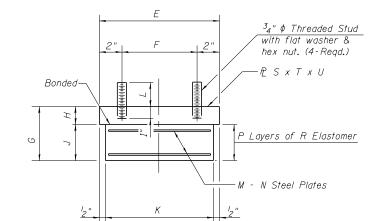


ELEVATION - CONTINUOUS SUPPORT

(1 required at Pier 6, Beam C1) (1 required at Pier 10, Beam D1)

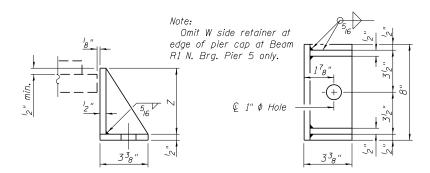
(1 required at Pier 10, Beam D2)

FIXED BEARING



BEARING ASSEMBLY

Shim plates shall not be placed under Bearing Assembly.

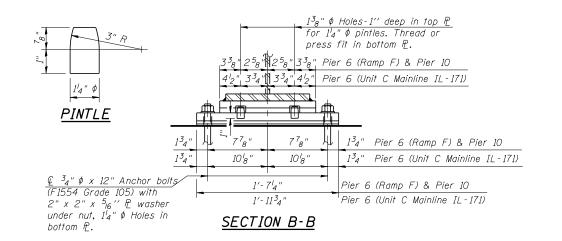


SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

I-2E-1

Alfred Benesch & Compan



TYPE I ELASTOMERIC EXPANSION BEARINGS

Location	А	В	С	D	Ε	F	G	Н	J	К	L	М	Ν	Р	R	S	T	U	V	Ζ
Beams D1 & D2 Pier 8	5"	7"	10"	314"	11"	7"	5″ ₁₆ ″	178"	3 ¹³ 16 "	10"	234"	6	¹ 8"	7	7 ₁₆ "	178"	11"	1'-4"		6"
Beams D1 & D2 Piers 9 & 11	5½"	8"	11"	314"	12"	8"	414"	178"	23 ₈ "	11"	234"	3	8"	4	12"	178"	12"	1′-6"		412"
Beam C1 N. Brg. Pier 5	3½"	6"	912"	5½"	8"	4"	314"	1/2"	134"	7"	2 ⁷ 8"	3	3 ₃₂ "	4	38"	1/2"	8"	1′-3"	5"	3½"
Beam C1 S. Brg. Pier 7	3½"	6"	912"	5½"	8"	4"	334"	1'2"	214"	7"	2 ⁷ 8"	4	3 ₃₂ "	5	38"	1/2"	8"	1′-3"	5"	4"
Beam R1 N. Brg. Pier 5 & Ramp F Abut.	41/2"	6"	9"	34"	10"	6"	3 ³ 4"	1/2"	214"	9"	2³ ₄ "	4	3 ₃₂ "	5	38"	1/2"	10"	1'-2"	6"	4"
Beam R5 N. Brg. Pier 5	5"	7"	10"	314"	11"	7"	4 ⁵ 16 "	1 ⁵ 8"	21/16"	10"	2³4"	4	8"	5	⁷ 16 "	1 ⁵ 8"	11"	1'-4"	6½"	4 ⁵ 8"

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	11
Anchor Bolts, 3 ₄ "	Each	35

Two $^{l}_{8}$ " adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.

Anchor bolts for side retainers may be cast in place or installed in holes drilled before or after members are in

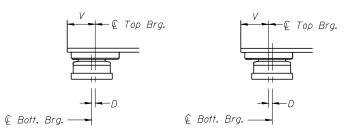
Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

Side retainers and other steel members required for the elastomeric bearing assemblies shall be included in the cost of Elastomeric Bearing Assembly, Type I.

Steel members required for fixed bearing assembly shall be included with cost of furnishing and erecting structural steel.

The structural steel plates and pintles of the fixed bearings shall meet the requirements of AASHTO M270 Grade 50.

The structural steel plates of the elastomeric bearing assemblies shall meet the requirements of AASHTO M270 Grade 50.



(Move bott. brg. away from fixed brg.) (Move bott. brg. toward fixed brg.)

SETTING ANCHOR BOLTS AT EXP. BRG.

 $D={}^{l}8$ " per each 100' of expansion for every 15° temp. change from the normal temp. of 50°F.

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FILE NAME =	USER NAME = jsurber
0160486_60J16_063_brgdet.dgn	PLOT SCALE =

 115 312-303-0430 JOD NO. 10093				
USER NAME = Jsurber	DESIGNED	-	TJJ	REVISED -
	CHECKED	-	DTS	REVISED -
PLOT SCALE =	DRAWN	-	RMG	REVISED -
PLOT DATE = 8/6/2014	CHECKED	-	DTS	REVISED -

1-27-12

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

BEARING DETAILS (1 OF 2) STRUCTURE NO. 016–0486										
SHEET NO.	SG63 OF	SG100 SHEETS								

TILLINOIS EED AID PROJECT							
CONTRACT NO. 60J16							
373	2013-038B-R	COOK	821	653			
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			