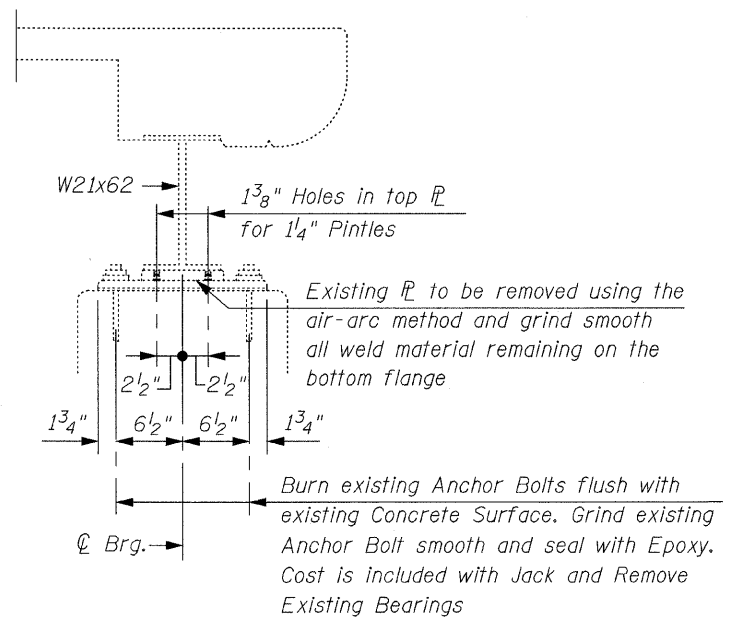
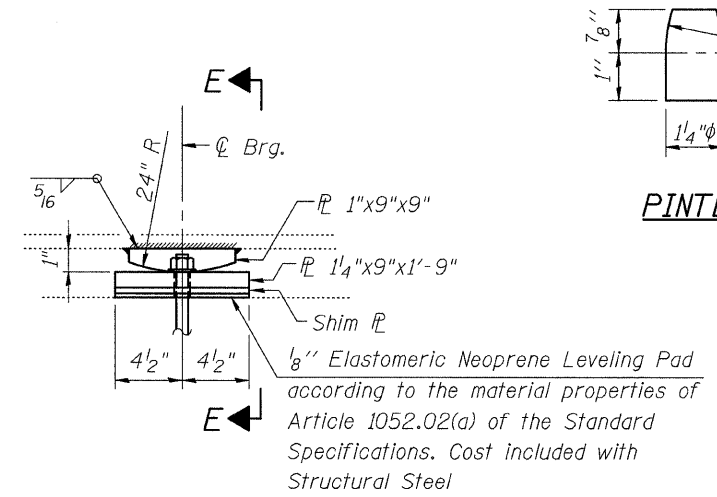


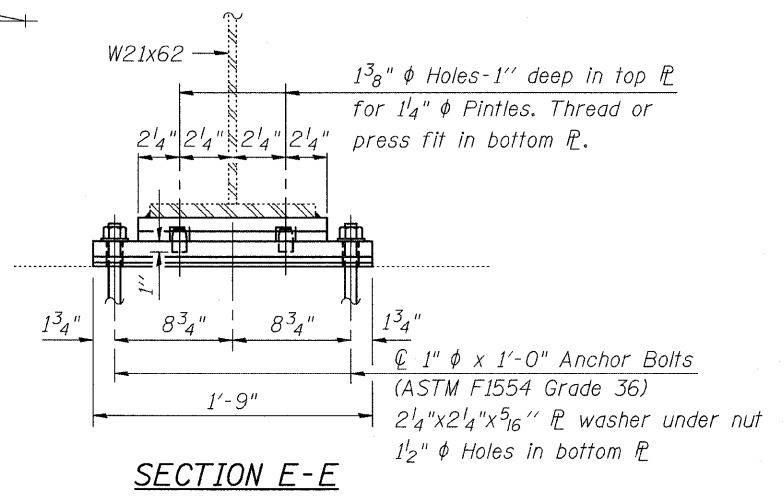
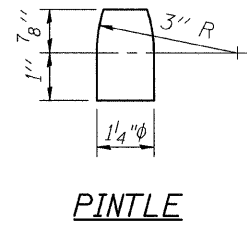
**BEAM NO'S. 1 & 10 AT OUTSIDE BEARINGS**  
**EXIST. FIXED BEARING AT**  
**PIERS 1, 2 & 3 & NORTH ABUTMENT**



**SECTION D-D**



**BEAM NO'S. 1 & 10 AT OUTSIDE BEARINGS**  
**PROPOSED FIXED BEARING AT**  
**PIERS 1, 2 & 3 & NORTH ABUTMENT**  
 (8 Thus)



**SECTION E-E**

**BEARING REPLACEMENT NOTES:**

The Contractor shall submit plans for jacking the existing Superstructure for approval by the Engineer prior to commencing any work with the bearings. The submittal shall be prepared and sealed by a Licensed Structural Engineer in Illinois.

It shall be the Contractor's responsibility to verify all dimensions between the bottom of the bridge Beams and the top of the bearing seat in the field prior to Construction or ordering of materials.

Jacking and removing of existing bearings shall be done after the existing overlay removal is completed and before the new overlay is poured.

The Contractor shall supply additional Shim Plates if required to bring devices to Grade. Cost included with Furnishing and Erecting Structural Steel.

Anchor Bolts at Fixed Bearings must be installed in holes drilled after the supported member is in place. Drilled and set Anchor Bolts shall be installed according to Article 521.06 of the Standard Specifications. Anchor Bolts shall be ASTM F1554 all-thread (or an Engineer-Approved Alternate Material) of the Grade and diameter specified. ASTM A307 Grade C Anchor Bolts may be used in lieu of ASTM F1554 Grade 36 (Fy-36ksi). The corresponding specified Grade of AASHTO M314 Anchor Bolts may be used in lieu of ASTM F1554.

The new bearings shall be in place and the jacks shall be lowered before the new overlay is poured.

**BEAM REACTION TABLE**

	Beam No.'s.
	1 & 10
R <sub>l</sub>	(k) 40.2
R <sub>t</sub>	(k) 15.4
R <sub>TM</sub>	(k) -
R <sub>Total</sub>	(k) 55.6

Minimum jack capacity at each bearing for Beam No's. 1 & 10 = 40 tons

**BILL OF MATERIAL**

Item	Unit	Total
Jack and Remove Existing Bearings	Each	8
Furnishing and Erecting Structural Steel	Pound	720
Anchor Bolts, 1"φ	Each	16

FILE NAME = bearing-fix-piers.dgn  
 PLOT DATE = 7/8/2009

**CHRISTIAN-ROGE & ASSOCIATES, INC.**  
 ENGINEERS-PLANNERS-SURVEYORS  
 211 WEST WACKER DRIVE  
 CHICAGO, ILLINOIS 60606  
 PHONE: (312)372-2023 FAX: (312)372-5274

DESIGNED - B.N.S./J.C.N.	REVISED -
DRAWN - D.L./R.E.S./F.M.	REVISED -
CHECKED - B.N.S./J.C.N.	REVISED -
DATE - JULY 8, 2009	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**FIXED BEARINGS**  
**AT PIERS 1, 2 & 3 & NORTH ABUTMENT AT BEAM NO'S 1 & 10**  
**KEDZIE AVENUE OVER CAL-SAG CHANNEL S.N. 016-0762**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2831	1313, 1-1-2	COOK	41	28

SCALE: SHEET NO. S19 OF S29 SHEETS STA. TO STA. FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT CONTRACT NO. 60075