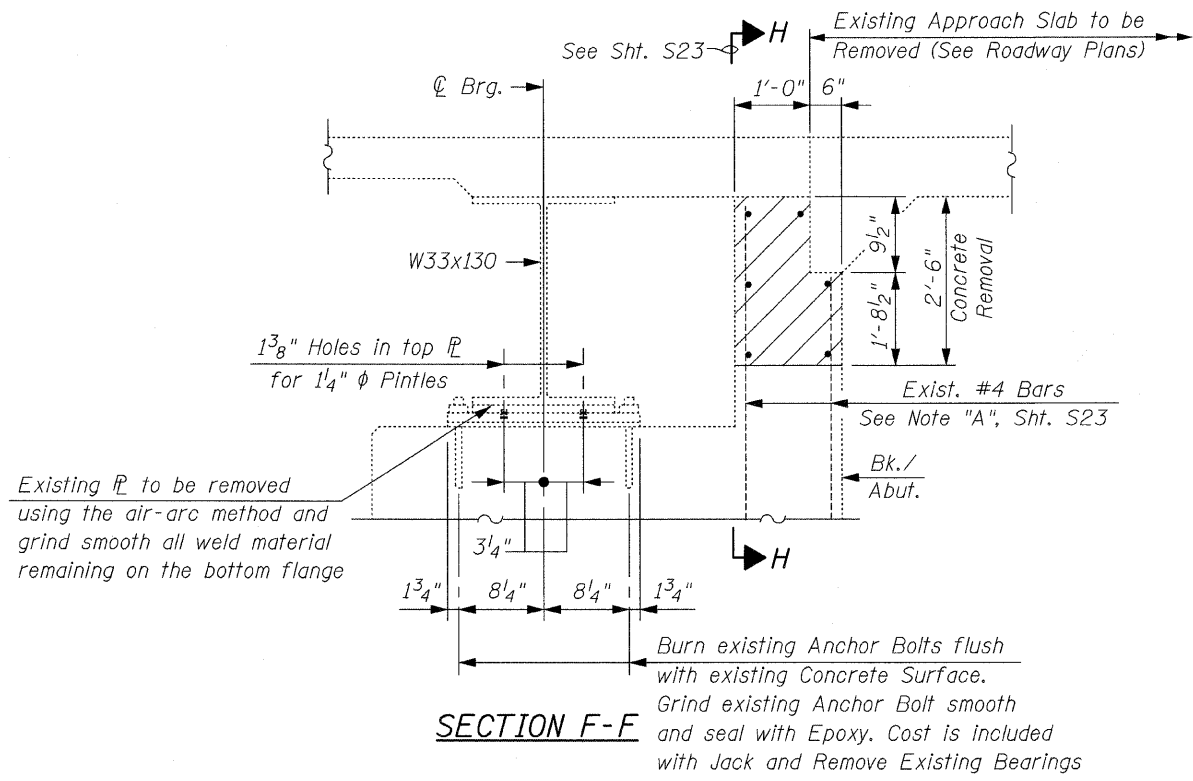


**EXIST. ELEVATION AT NO. ABUT.**

**CENTER BEARING**

**EXIST. FIXED BEARINGS AT NO. ABUT.**



**SECTION F-F**

**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.

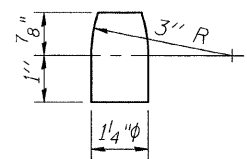
It shall be the Contractor's responsibility to verify all dimensions between the bottom of the Bridge beams and the top of the bearing seat in the field prior to Construction or ordering of materials.

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

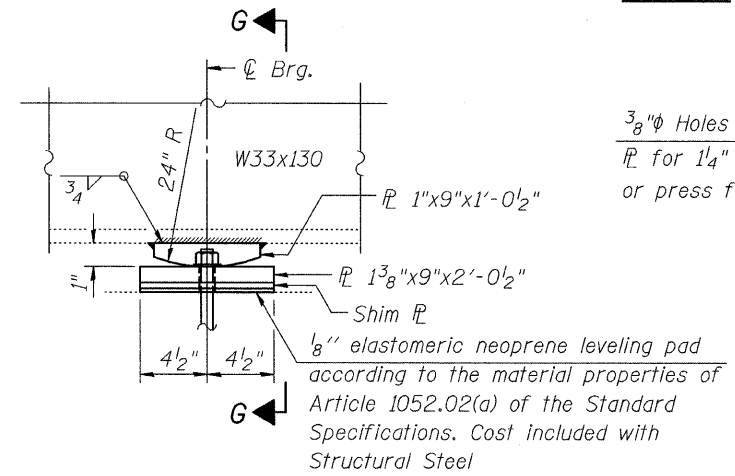
The Contractor shall supply additional Shim Plates if required to bring devices to Grade. Cost included with Furnishing and Erecting Structural Steel.

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.



**PINTLE**

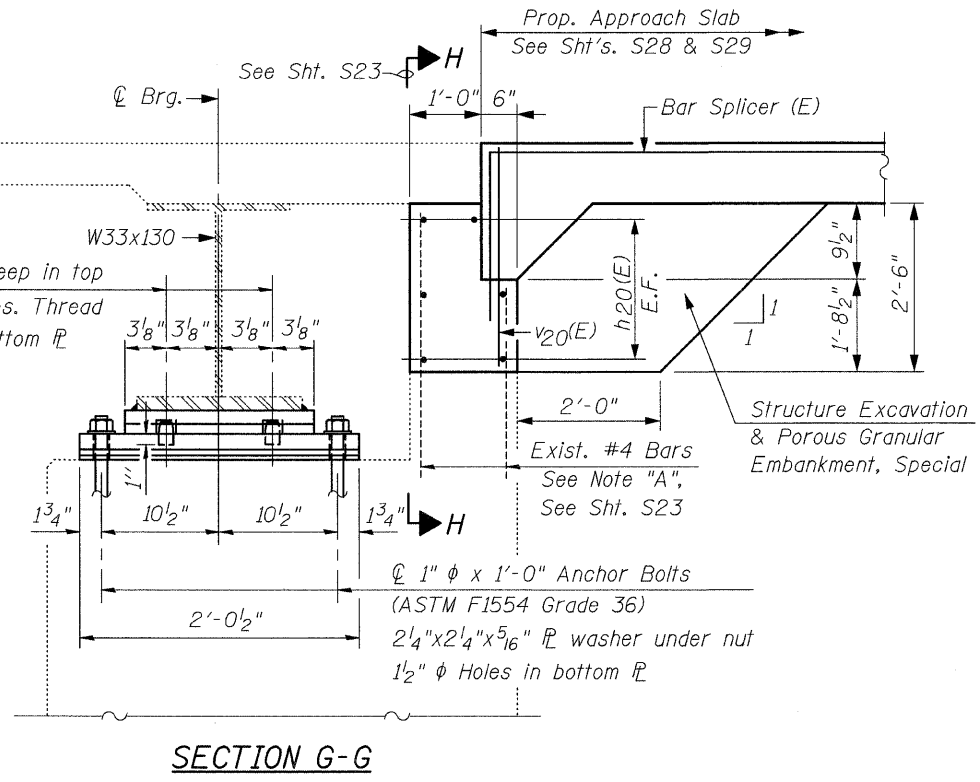


**PROP. ELEVATION AT NO. ABUT.**

**CENTER BEARING**

**PROP. FIXED BEARING AT NO. ABUT.**

(1 Thus)



**SECTION G-G**

**BEAM REACTION TABLE**

		Center Bearing at North Abutment
R <sub>0</sub>	(k)	67.0
R <sub>L</sub>	(k)	96.6
R <sub>TM</sub>	(k)	29.0
R <sub>Total</sub>	(k)	192.6

Minimum jack capacity at center bearing = 100 tons

**NOTES:**

See Elevation H-H, Sht. S23 for location of center bearings.  
See Sht. S23 for additional Bill of Material.

**BILL OF MATERIAL**

Item	Unit	Total
Jack and Remove Existing Bearings	Each	1
Furnishing and Erecting Structural Steel	Pound	120
Anchor Bolts, 1"φ	Each	2

FILE NAME = bearing\_fix\_no\_abut.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.  
DRAWN - D.L./R.E.S./F.M.  
CHECKED - B.N.S./J.C.N.  
DATE - JULY 8, 2009

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

**FIXED BEARINGS - NORTH ABUTMENT CENTER BEARING**  
**KEDZIE AVENUE OVER CAL-SAG CHANNEL S.N. 016-0762**

SCALE: SHEET NO. S20 OF S29 SHEETS STA. TO STA.

F.A.U. RTE. 2831 SECTION 1313. 1-I-2 COUNTY COOK TOTAL SHEETS 41 SHEET NO. 29 CONTRACT NO. 60D75  
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT