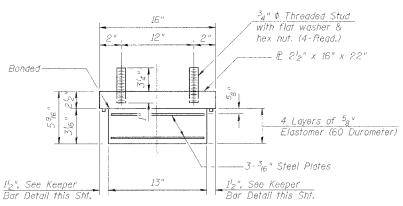
# A≪h -<sup>7</sup>8" ¢ Hole in Bott. Flange Shim P (13" x 16") -Bearing Assembly A

-Side Retainer, typ. 1378" 1378' £ 1½" φ x 18" Anchor Bolts with

SECTION A-A

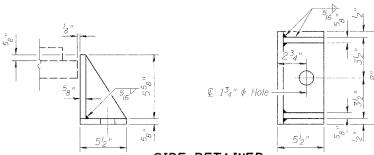
TYPE I ELASTOMERIC EXP. BRG. (Girder Bearing Stiffeners are not shown.,



### BEARING ASSEMBLY

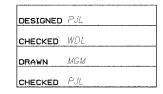
ELEVATION AT PIER

- 1. Shim plates shall not be placed under Bearing Assembly.
- 2. Field glue bearing pad to the concrete seat per B.N.S.F. requirements. See Special Provisions.
- 3. See Special Provisions: Note 60 Durometer Elastomer.



# SIDE RETAINER

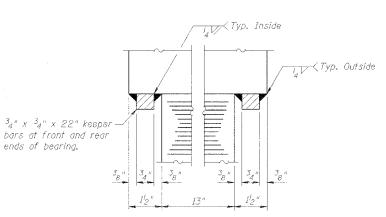
Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates. Weight included with Structural Steel.



# <u>Notes:</u>

3" x 3" x 5/6" 12 washer under nut

- 1. Anchor Bolts at fixed bearings may be built into the masonry.
- 2. See Sht. 8 of 19 for Anchor Bolt installation.



KEEPER BAR DETAIL

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

# **ELEVATION AT ABUTMENTS**

 $B \blacktriangleleft$ 

--£ Brg.

·R 1<sup>5</sup>8" x 9" x 15"

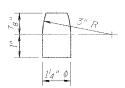
PL 2½" x 16" x 21½" Shim P. (16" x 215")

if required

Structural Steel.

### FIXED BEARING

(Girder Bearing Stiffeners are not shown.)



### **PINTLE**

INTER	<i>IOR GIRL</i>	DER MOMENT	TABLE
	at cen	ter of span	
		Cooper's	Cooper's
		E80 on	E65 on
		5 Girders	4 Girders
Is	(in 4)	117,281	117,281
Ss	(in 3)	2,636	2,636
P	(K/ft.)	1.30	1.30
MP	(K)	1,152	1,152
M4	(K)	1,890	3,072
M (Imp)	('K)	785	1,143
fs@	(k.s.i.)	5,2	5.2
fs (4+I)	(k.s.i.)	12.2	19.2
fs (Total)	(k.s.i.)	17.4	24.4
VR	(K)	146.2	230.4

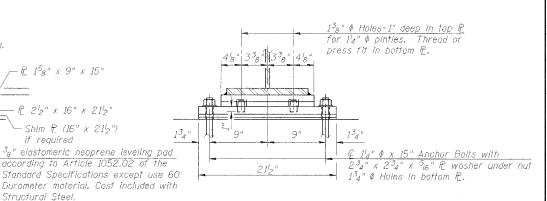
INTERIO	R GIF	RDER REACT	ION TABLE
		Cooper's	Cooper's
		E80 on	E65 on
		5 Girders	4 Girders
R₽	(K)	52.7	52.7
RŁ	(K)	103,3	167.9
Imp.	(K)	42.9	62.5
R (Total)	(K)	200.9	285,1

### *Notes*:

- 1. Is and Ss are the gross moment of inertia and section modulus of the steel section used in computing fs.
- 2. VR is the maximum Live Load + Impact shear range in span.
- 3. Impact includes vertical effects and rocking effects.
- 4. Loads and stresses are based on service load conditions, ignoring composite action of ballast plate.
- 5. Effects of Live Load and Impact eccentricity are included in distribution of load to girders,

ROUTE ND.	SECTION	COUNTY		TOTAL SHEETS	SHEET NO.	SHEET NO.	7
F.A.P. 315	55-2	McDONOUGH		1025	523	19 SHEETS	
FCD. ROAD DIST	NO. 4	ELLINOIS FEO. AID ONG		руест-			

Contract # 68205



SECTION B-B

- 1, See General Note 5, Sht. 2 of 19, typical all fixed and expansion bearing steel plates and pinties.
- 2. See General Note 9, Sht. 2 of 19 for 18" shim plates to be provided with all fixed and expansion bearings. See details this sheet for plan size and placement of shim plates.

## BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I (Special)	Each	10

BEARINGS, REACTION & MOMENT TABLES BURLINGTON NORTHERN SANTA FE RAILROAD OVER IL. ROUTE 336 F.A.P. ROUTE 315 SECT. 55-2 McDONOUGH COUNTY STATION 554+41.87 STRUCTURE NO. 055-9901 B.N.S.F. LINE SEGMENT 0011 B.N.S.F. BRIDGE NO. 206.04

