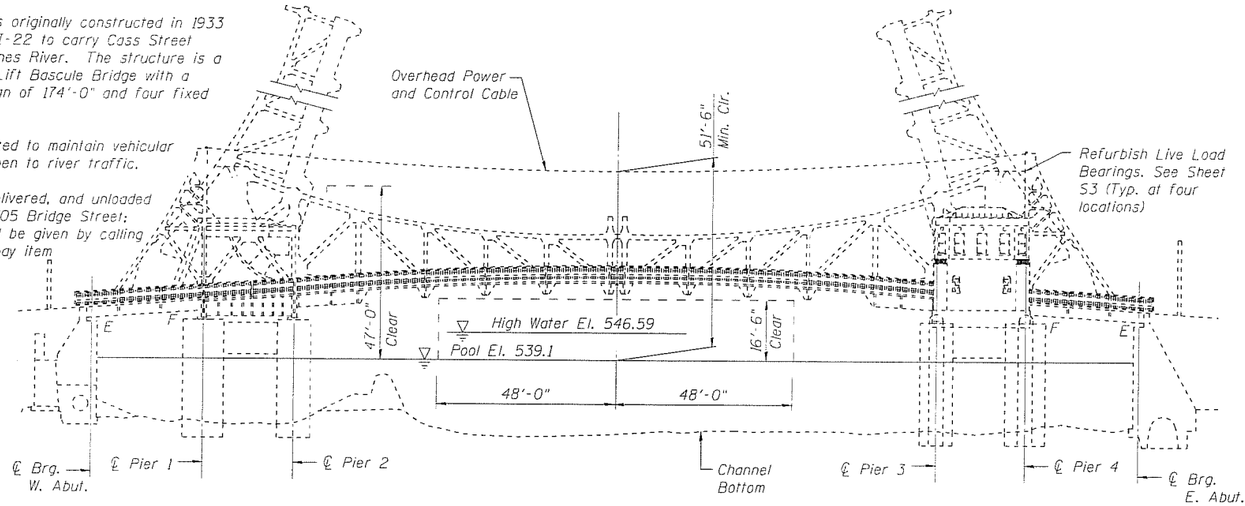
Bench Mark: Brass disk in concrete wall (M.S.L. Elev. 544.578) at Sta. 9+42 Left ±316', IL Waterway BM #288.2

Existing Structure: S.N. 099-0101 was originally constructed in 1933 under Section SBI-22 to carry Cass Street over the Des Plaines River. The structure is a Scherzer Rolling Lift Bascule Bridge with a main moveable span of 174'-0" and four fixed approach spans.

An assigned detour route will be utilized to maintain vehicular traffic, but the channel will remain open to river traffic.

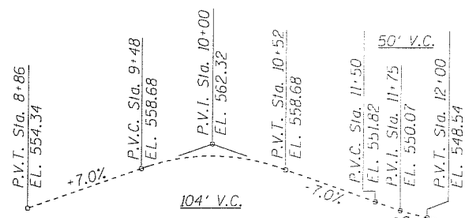
NE Rack Section shall be salvaged, delivered, and unloaded at the Joliet Moveable Bridge Office: 105 Bridge Street; Joliet, IL 60435. 24 hour notice shall be given by calling 815-726-5495. Cost included in the pay item Operating Machinery.



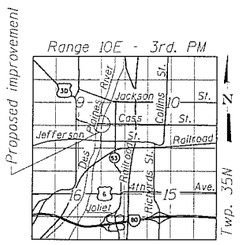
ELEVATION

CURVE DATA

P.C. = Sta. 8+42.18
P.I. = Sta. 8+60.10
P.T. = Sta. 8+77.92
Δ = 10°43'15"
D = 30°
R = 190.99'
T = 17.92'
L = 35.74'
E = 0.84'



PROFILE GRADE
(Along ℄ Cass Street)



LOCATION SKETCH

SCOPE OF WORK

1. Refurbish live load bearings.
2. Realign/Replace northeast rack.
3. Repair floor beam sidewalk cantilevers. See Sheet S5.
4. Remove and replace batten plates.

DESIGN SPECIFICATIONS

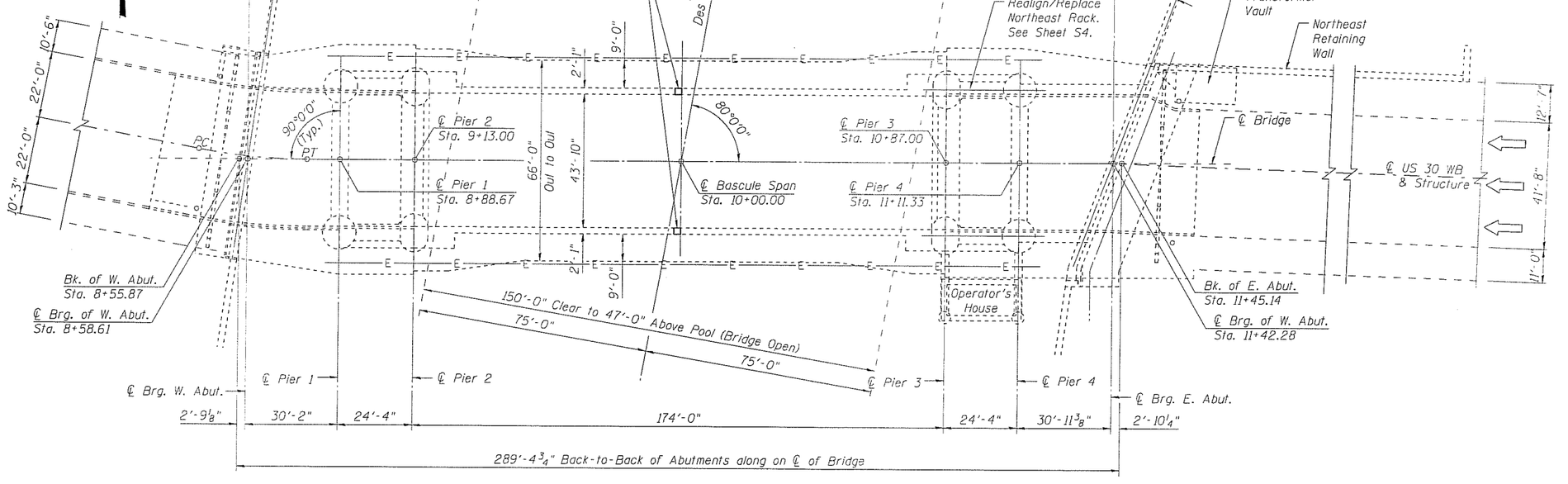
2002 AASHTO Standard Specifications for Highway Bridges (17th Edition)

1988 AASHTO Standard Specifications for Movable Bridges (5th Edition)

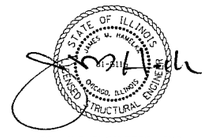
LOADING HS20-44

DESIGN STRESSES

FIELD UNITS
f_y = 36,000 psi (structural steel)



PLAN



COLLINS ENGINEERS, INC.
JAMES M. HAMELKA
NO. 81-6116
EXPIRES 11-30-2012

FILE NAME =	USER NAME =	DESIGNED - JMS	REVISED -
		CHECKED - JMH	REVISED -
	PLOT SCALE =	DRAWN - PRH	REVISED -
	PLOT DATE =	CHECKED - JMH	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
US 30 WB (CASS STREET) OVER DES PLAINES RIVER
STRUCTURE NO. 099-0101
SHEET NO. 51 OF 56 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
607	2011-065-BR	WILL	33	8
		CONTRACT NO. 60P84		
	ILLINOIS FED. AID PROJECT			