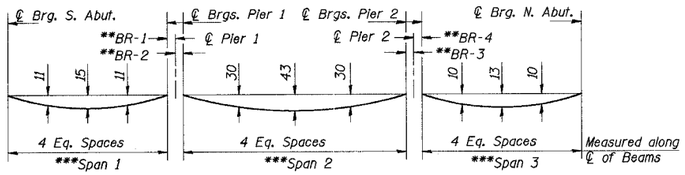
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 80/94		COOK	870	478
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT-	

SECTION (0203.1 & 0312-708W) R-3 CONTRACT # 62108

SHEET NO. 5
37 SHEETS



DEAD LOAD DEFLECTION DIAGRAM

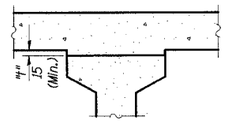
(Includes weight of concrete, excluding beams).

Note: The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on Sheet No. 6 Thru 8 of 37

* Measured perpendicular to tangent to ℄ IL-394 at ℄ Brg. at abutments & at ℄ pier at piers (Typ.)

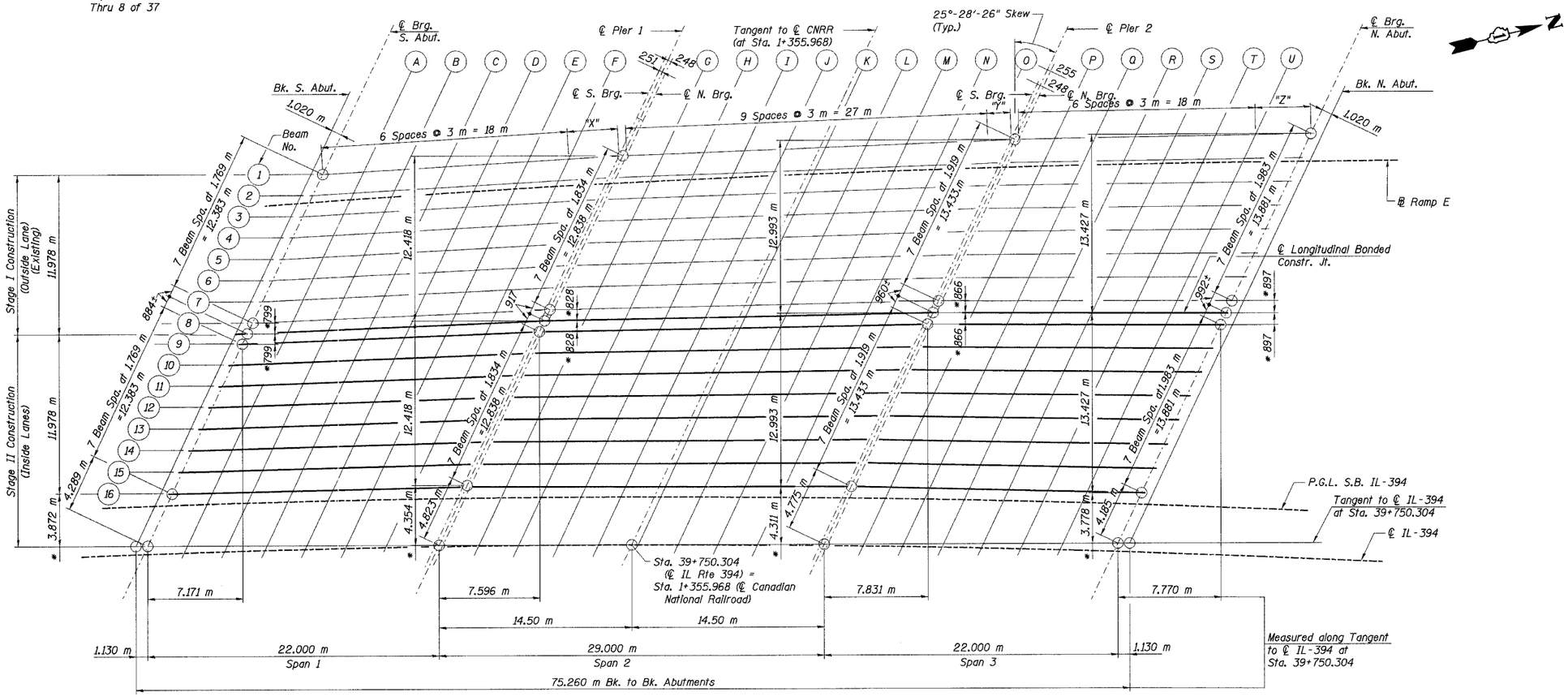
** For ℄brg. to ℄pier dimensions see table below.

*** For Span dimensions, see table below.



To determine "t": After all precast prestressed beams have been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflections" minus slab thickness, equals the fillet heights "t" above top flanges of beams.

FILLET HEIGHTS



PLAN

"X", "Y", & "Z" DIMENSIONS

(Measured along ℄ of Beams)

Beam No.	"X" (m)	"Y" (m)	"Z" (m)
9	4.159	1.686	3.658
10	4.130	1.649	3.631
11	4.100	1.612	3.604
12	4.070	1.575	3.578
13	4.041	1.539	3.552
14	4.012	1.503	3.525
15	3.983	1.467	3.501
16	3.954	1.430	3.474

℄ BRG. TO ℄ PIER DIMENSIONS

(Measured along ℄ of Beams)

Beam No	BR-1 (mm)	BR-2 (mm)	BR-3 (mm)	BR-4 (mm)
9	284	277	277	282
10	283	276	277	281
11	283	276	276	281
12	283	276	276	281
13	282	275	276	280
14	282	275	275	280
15	281	274	275	280
16	281	274	275	279

SPAN TABLE

(Measured along ℄ of Beams from ℄ Brg. to ℄ Brg.)

Beam No.	SPAN 1 (m)	SPAN 2 (m)	SPAN 3 (m)
9	22.159	28.685	21.657
10	22.130	28.649	21.631
11	22.100	28.612	21.604
12	22.070	28.575	21.578
13	22.041	28.539	21.552
14	22.012	28.503	21.525
15	21.983	28.467	21.500
16	21.954	28.430	21.474

Notes:
1. Beams are straight and placed on chord from substructure element to substructure element.
2. All dimensions are in millimeters (mm) except as noted.

DESIGNED	M.R./ H.T.
CHECKED	H.T.
DRAWN	J.B./ J.S.
CHECKED	H.T./ M.R.

ILLINOIS DEPARTMENT OF TRANSPORTATION
I-94/IL 394 SOUTH BOUND
TOP OF SLAB ELEVATION
GRID & DETAILS
SB IL. ROUTE 394 OVER CANADIAN NATIONAL RR
F.A.P. 332 SECTION (0203.1 & 0312-708W) R-3
COOK COUNTY
STA. 39+752.246 S.N. 016-2798 (INSIDE LANES)
DATE: July 18, 2005
SCALE: NONE

Soodan

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