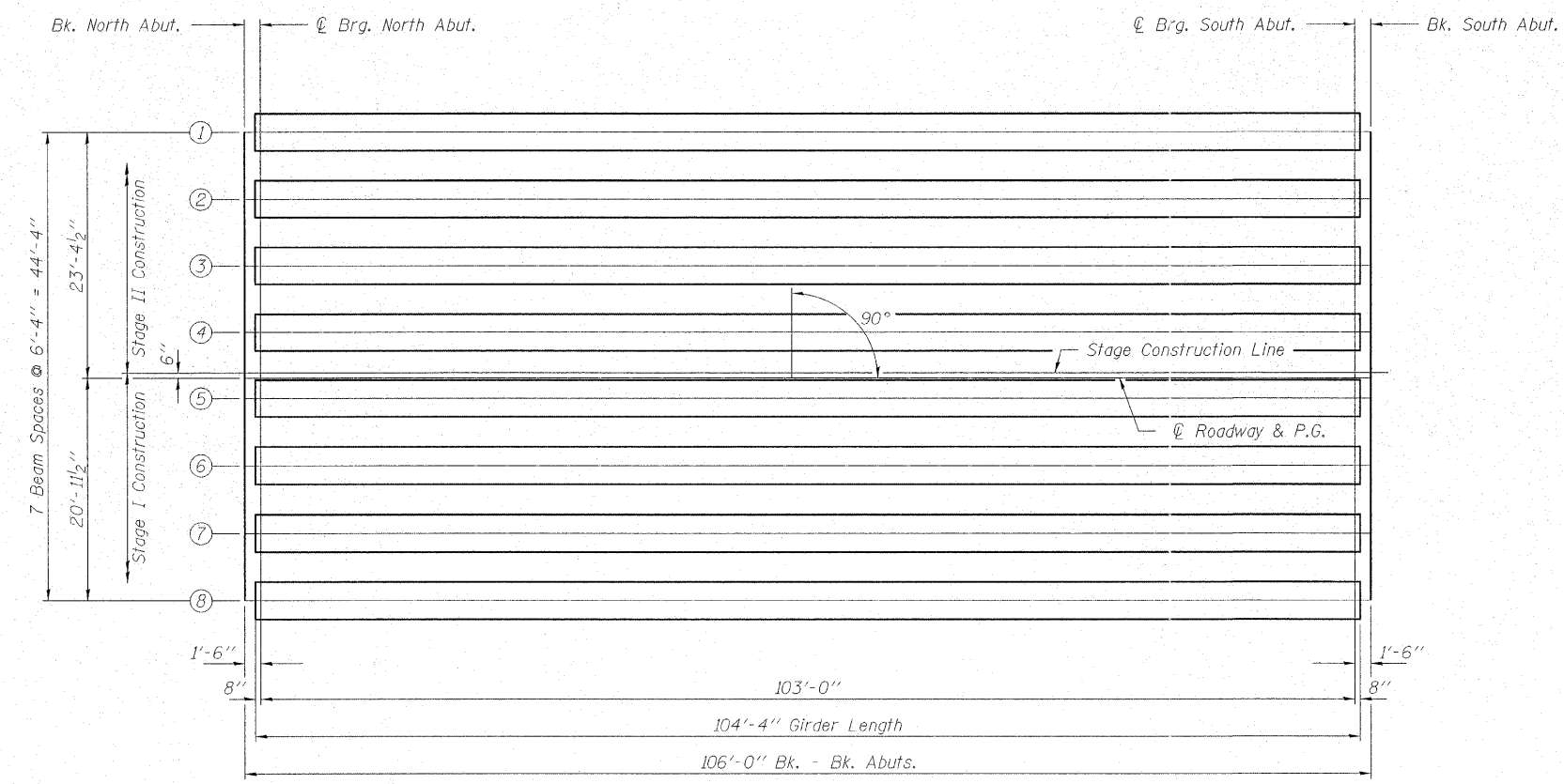
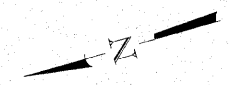


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 17 25 SHEETS
FAU 2503	(35) BR-2	KENDALL	129	41	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT	Contract No. 66399		



PLAN

	0.5 Span
I	(in ⁴) 392638
I'	(in ⁴) 736211
S_b	(in ³) 12224
S_b'	(in ³) 16060
S_t	(in ³) 12715
S_t'	(in ³) 42903
D	(k/ft.) 1.42
M_D	(k) 1883
s_D	(k/ft.) 0.491
M_{sD}	(k) 651
M_L	(k) 908
M (Imp)	(k) 200

	Abut.
R_D	(k) 73
R_{sD}	(k) 25.3
R_L	(k) 37.7
R Imp.	(k) 8.3
R (Total)	(k) 144.3

- I Non-composite moment of inertia of beam section (in⁴).
- I' Composite moment of inertia of beam section (in⁴).
- S_b Non-composite section modulus for the bottom fiber of the prestressed beam (in³).
- S_b' Composite section modulus for the bottom fiber of the prestressed beam (in³).
- S_t Non-composite section modulus for the top fiber of the prestressed beam (in³).
- S_t' Composite section modulus for the top fiber of the prestressed beam (in³).
- D Un-factored non-composite dead load (kips/ft).
- M_D Un-factored moment due to non-composite dead load conservatively taken at 0.5 of the span (kip-ft).
- s_D Un-factored long-term composite (superimposed) dead load (kips/ft).
- M_{sD} Un-factored moment due to long-term composite (superimposed) dead load (kip-ft).
- M_L Un-factored live load moment on the composite section (kip-ft).
- M Imp Un-factored moment due to Impact on the composite section (kip-ft).

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS

3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400

HLR

ELGIN • SPRINGFIELD

PROJECT NUMBER: 12-06-0029-1 DATE: 01/14/08
DESIGNED: P.S.L. CHECKED: M.D.C. DRAWN: D.A.B.

FRAMING PLAN
IL 25 OVER WAUBONSEE CREEK
F.A.U. ROUTE 2503 / SECTION (35) BR-2
KENDALL COUNTY
STATION 12+91.00
STRUCTURE NO. 047-0062