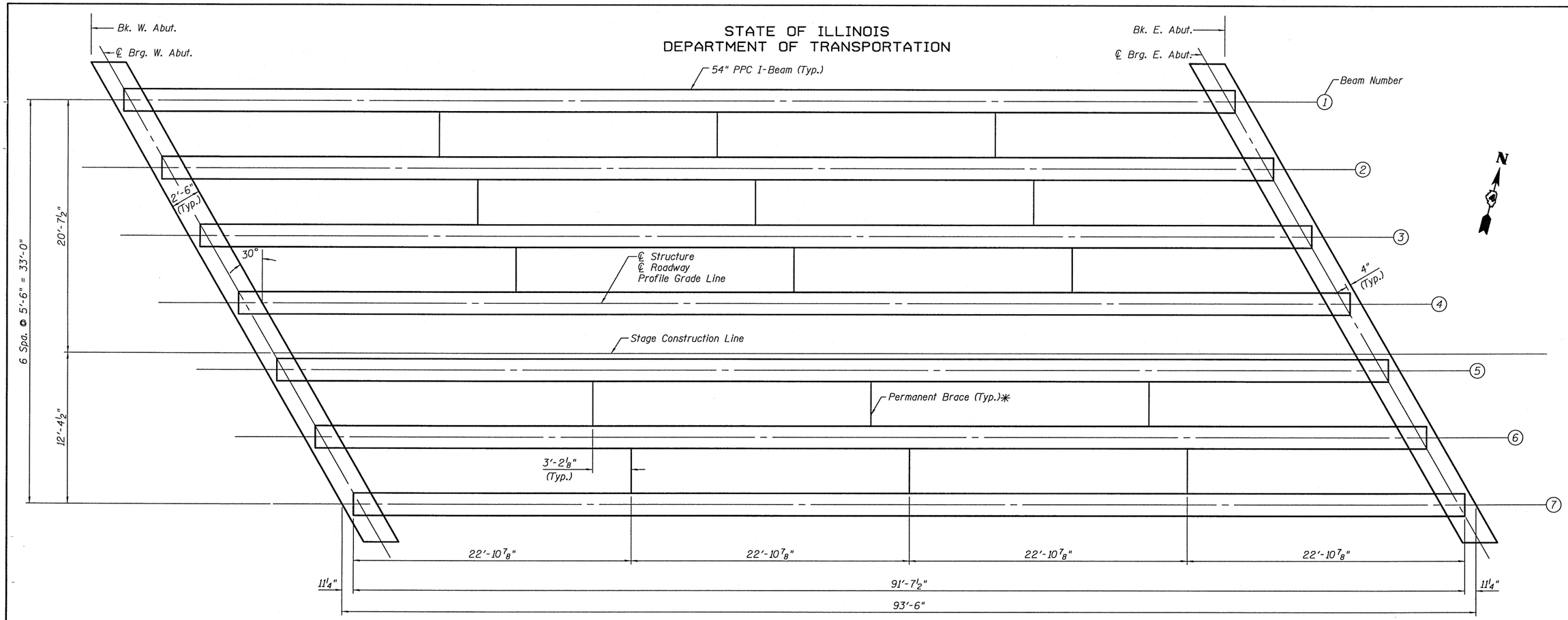
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



FRAMING PLAN

*Cost included in Furnishing and Erecting Precast Prestressed I-Beams, 54 In. See Sheet 12 of 22 for details.

INTERIOR BEAM MOMENT TABLE		
		0.5 Sp.
I	(in^4)	213,715
I'	(in^4)	478,017
S_b	(in^3)	8,559
S_b'	(in^3)	12,506
S_t	(in^3)	7,362
S_t'	(in^3)	30,293
DC1	(k/')	1.27
M_{DC1}	('k)	1300.9
DC2	(k/')	0.13
M_{DC2}	('k)	132.3
DW	(k/')	0.26
M_{DW}	('k)	263.7
M_{L+IM}	('k)	1,297.3

INTERIOR BEAM REACTION TABLE		
		Abut.
R_{DC1}	(k)	57.3
R_{DC2}	(k)	5.9
R_{DW}	(k)	11.8
R_{L+IM}	(k)	81.22
R_{Total}	(k)	156.2

I: Non-composite moment of inertia of beam section ($in.^4$).
I': Composite moment of inertia of beam section ($in.^4$).
S_b: Non-composite section modulus for the bottom fiber of the prestressed beam ($in.^3$).
S_b': Composite section modulus for the bottom fiber of the prestressed beam ($in.^3$).
S_t: Non-composite section modulus for the top fiber of the prestressed beam ($in.^3$).
S_t': Composite section modulus for the top fiber of the prestressed beam ($in.^3$).
DC1: Un-factored non-composite dead load (kips/ft.).
M_{DC1}: Un-factored moment due to non-composite dead load (kip-ft.).
DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).
M_{DC2}: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).
DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).
M_{DW}: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft).
M_{L+IM}: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).

DESIGNED	RRD
CHECKED	AJS
DRAWN	KAS
CHECKED	AJS

FRAMING PLAN
S.N. 090-0177

STRAND ASSOCIATES, INC.

SHEET NO. 10	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22 SHEETS	693	(119 BR-2)BR	TAZEWELL	65	27
			CONTRACT NO. 68660		
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		