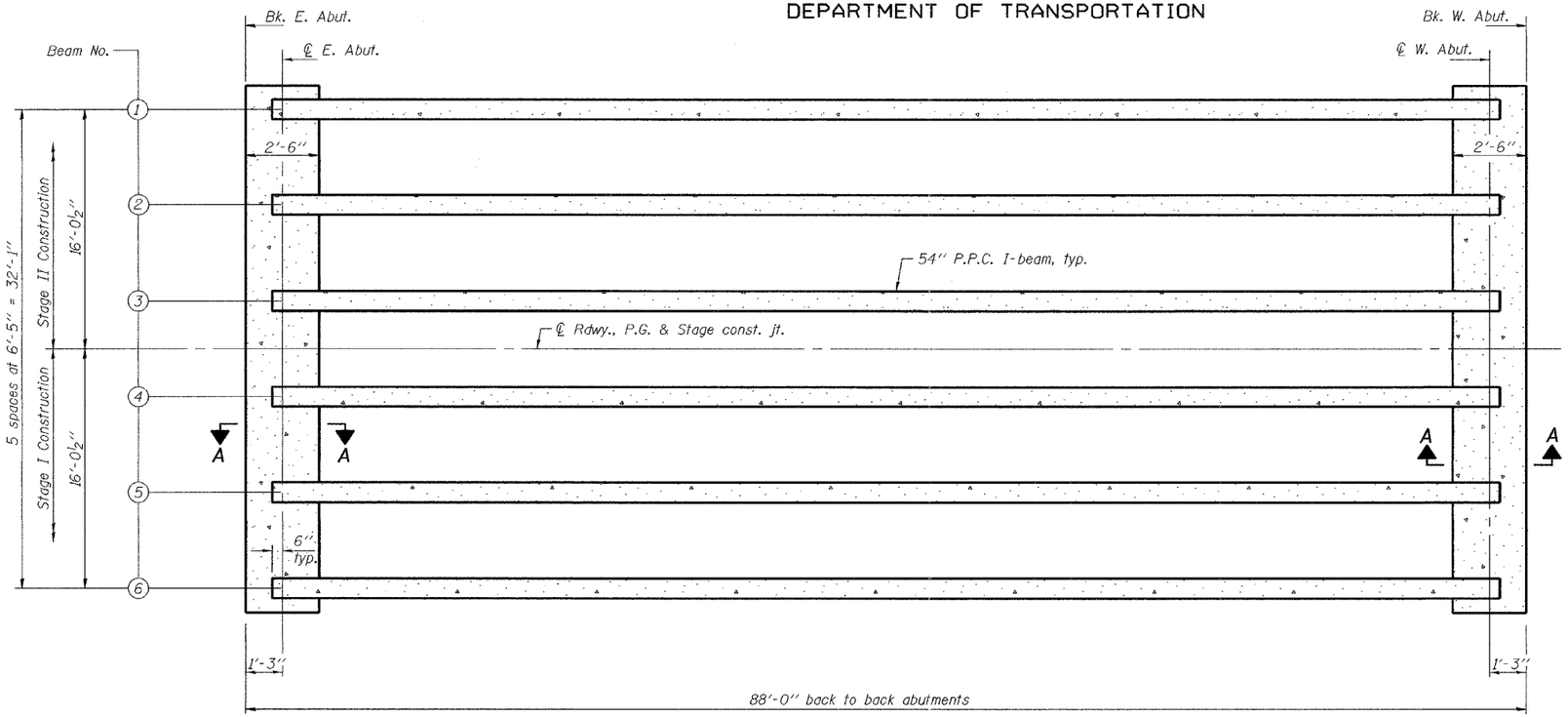
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 6769	(8B) BR-4	TAZEWELL	102	44
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 10
16 SHEETS

Contract No. 68247

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



FRAMING PLAN

Note: For Section A-A see sheet 9 of 16.

INTERIOR BEAM MOMENT TABLE		
		0.5 Span 1
Strand Pattern		26-B
I	(in^4)	213715
I'	(in^4)	509126
S_b	(in^3)	8559
S_b'	(in^3)	12884
S_t	(in^3)	7362
S_t'	(in^3)	35150
DC1	(k/ft.)	1.246
M DC1	('k)	1138.9
DC2	(k/ft.)	0.15
M DC2	('k)	137.1
DW	(k/ft.)	0.321
M DW	('k)	293.2
M_L	('k)	1007.4
M IM	('k)	332.4

INTERIOR BEAM REACTION TABLE HL-93 LOADING		
		Abut.
R DC1	(k)	53.3
R DC2	(k)	6.4
R DW	(k)	13.7
R_L	(k)	59.4
R IM	(k)	19.6
R (Total)	(k)	152.4

I and I' are the non-composite and composite moment of inertia of the beam section.

S_b and S_b' are the non-composite and composite section modulus for the bottom fiber of the prestressed beam.

S_t and S_t' are the non-composite and composite section modulus for the top fiber of the prestressed beam.

M_L is the unfactored moment due to live load on the composite section.

DC1 is the dead load acting on the non-composite section.

DC2 is the dead load acting on the long-term composite section.

DW is the dead load acting on the long-term composite section due to wearing surface.

M IM is the un-factored moment due to live load impact on the composite section.

M DC1 is the un-factored moment due to non composite dead load. It is conservatively calculated at 0.5 of the span.

M DC2 is the un-factored moment due to long term composite (superimposed excluding future wearing surface) dead load.

M DW is the un-factored moment due to long term composite (superimposed future wearing surface only) dead load.

DESIGNED	MDS
CHECKED	DFZ/AJB
DRAWN	h.t. duong
CHECKED	MDS/AJB

Sep. 12. 2006
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

FRAMING PLAN
F.A.U. 6769 - SECTION (8B)BR-4
TAZEWELL COUNTY
STATION 319+71
STRUCTURE NO. 090-0173

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