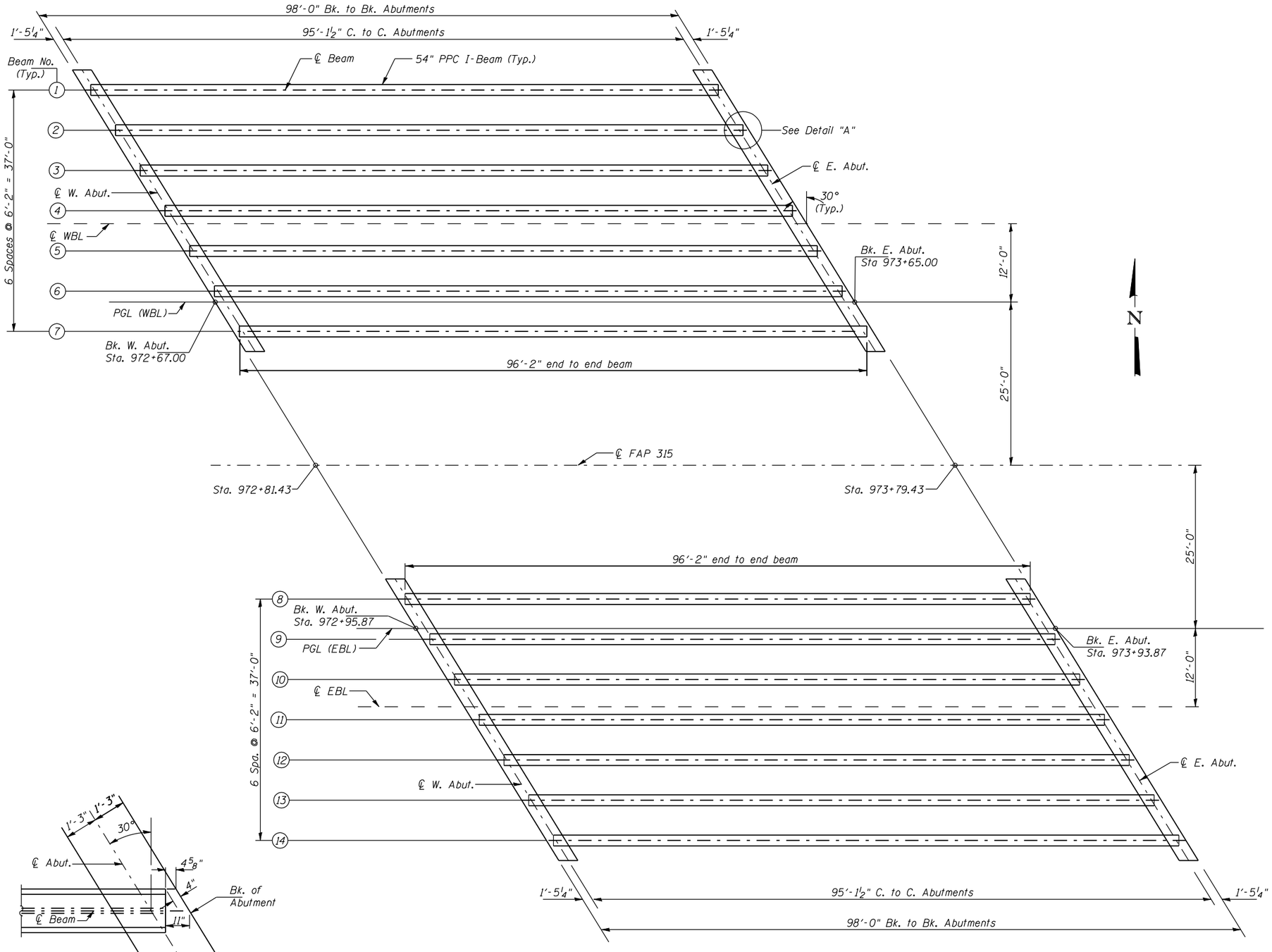
ROUTE NO.	SEC	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 315	*	HANCOCK	452	188
FED. ROAD DIST. NO. 7	ILLINOIS	PROJECT		

* 34-4B

SHEET NO. 11
21 SHEETS

~~D-96-551-02~~

CONTRACT NO. 72680



DETAIL "A"

FRAMING PLAN

INTERIOR BEAM MOMENT TABLE		
		0.5 Span
I	(in^4)	213,715
I'	(in^4)	481,649
S_b	(in^3)	8,559
S_b'	(in^3)	12,507
S_t	(in^3)	7,362
S_t'	(in^3)	31,094
w_ℓ	(k/')	1.222
M_ℓ	('k)	1,379
s_ℓ	(k/')	0.458
Ms_ℓ	('k)	517
M_L	('k)	804
M (Imp)	('k)	183

INTERIOR BEAM REACTION TABLE		
		Abut.
R_ℓ	(k)	58.0
Rs_ℓ	(k)	21.8
R_L	(k)	36.4
Imp.	(k)	8.3
R (Total)	(k)	124.5

I and I' are the moment of inertia 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 moment due to dead loads on the non-composite prestressed beam.
Ms_ℓ is the moment due to dead loads on the composite section.
M_L is the moment due to live load on the composite section.
M (Imp) is the moment due to live load impact on the composite section.

FRAMING PLAN
FAP ROUTE 315 OVER PRAIRIE CREEK
SECTION 34-4B
HANCOCK COUNTY
STATION 973+28.00
STR. NO. 034-0506 (WBL)
STR. NO. 034-0507 (EBL)

HUTCHISON ENGINEERING, INC.
JACKSONVILLE, ILLINOIS
Date: January 31, 2006

2173b011