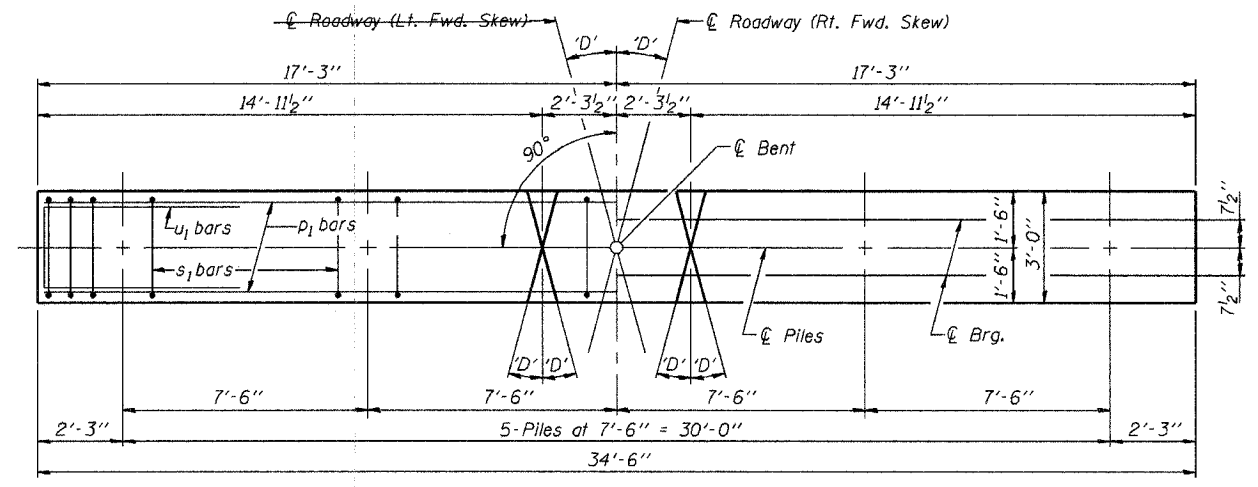
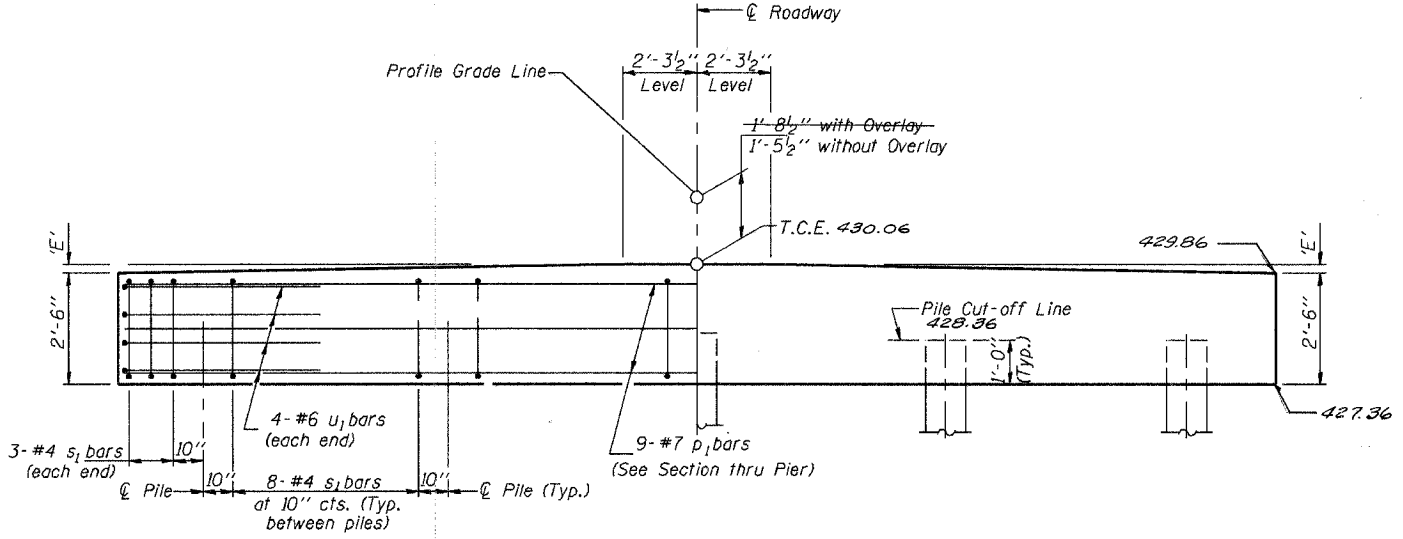


F.A.S. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET
05-05122-00-BR	LAWRENCE	11	B	
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	PROJECT		



PLAN
(D = Designated Skew Angle)



ELEVATION

DIMENSION 'E'

GRADE	'D'=25°		'D'=30°	
	UPGRADE END	DOWNGRADE END	UPGRADE END	DOWNGRADE END
0%	2 1/2"	2 1/2"	2 3/8"	2 3/8"
Over 0% to 1%	2 1/8"	2 7/8"	2"	2 7/8"
Over 1% to 2%	1 3/8"	3 5/8"	1"	3 3/4"
Over 2% to 3%	5/8"	4 3/8"	1/8"	4 5/8"
Over 3% to 4%	0"	5 1/8"		

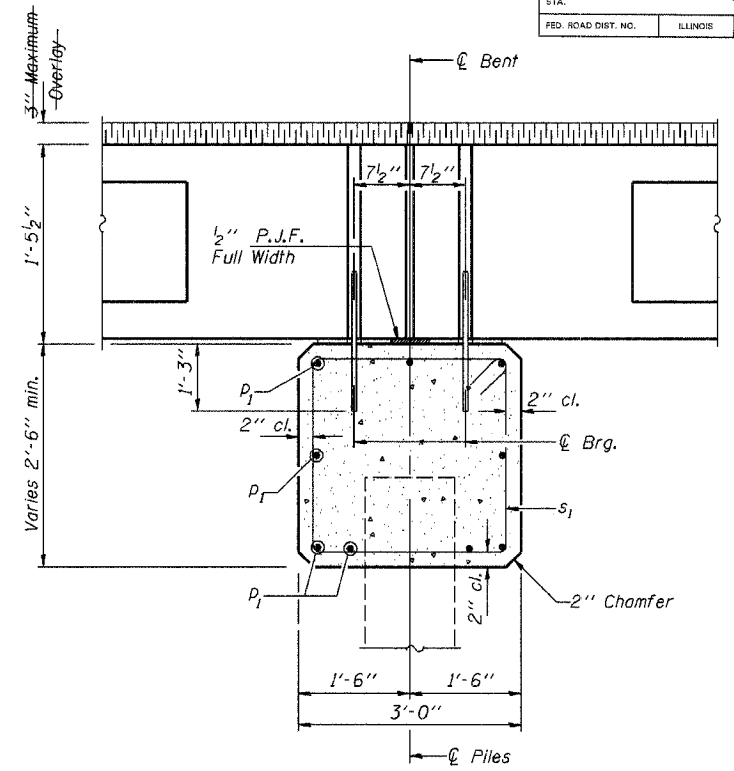
MAXIMUM PILE LOADS

SPAN	TONS
25'	30
30'	33
35'	36
40'	40

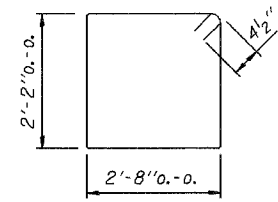
Longer of Either Span Supported by Pier.

DESIGN STRESSES

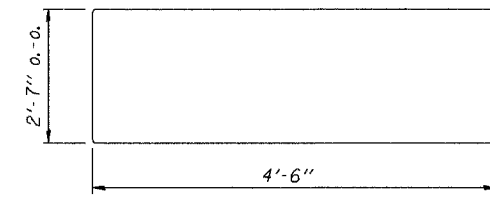
f'c = 3,500 psi
fy = 60,000 psi



SECTION THRU PIER
(At Right Angles)



BAR s1



BAR u1

BILL OF MATERIAL FOR ONE PIER

Bar	No.	Size	Length	Shape
p1	9	#7	34'-2"	—
s1	38	#4	10'-5"	□
u1	8	#6	11'-7"	▭
Concrete Structures			10.0	Cu. Yds.
Reinforcement Bars			1030	Lb.

NOTE

Reinforcement bars shall conform to the requirements of A.A.S.H.T.O. M-31 or M-322, Grade 60.

**P.P.C. DECK BEAMS
PILE BENT PIER**

28' RDWY. | 17" BMS. | 'D'=25° OR 30°

STANDARD CP-2817-30

Illinois Department of Transportation

PASSED APRIL 4, 2005
Thomas S. Nimga (Signature)
Engineer of Bridge Design

APPROVED APRIL 4, 2005
Ralph E. Anderson (Signature)
Engineer of Bridges and Structures

106-1-1 03/05/01