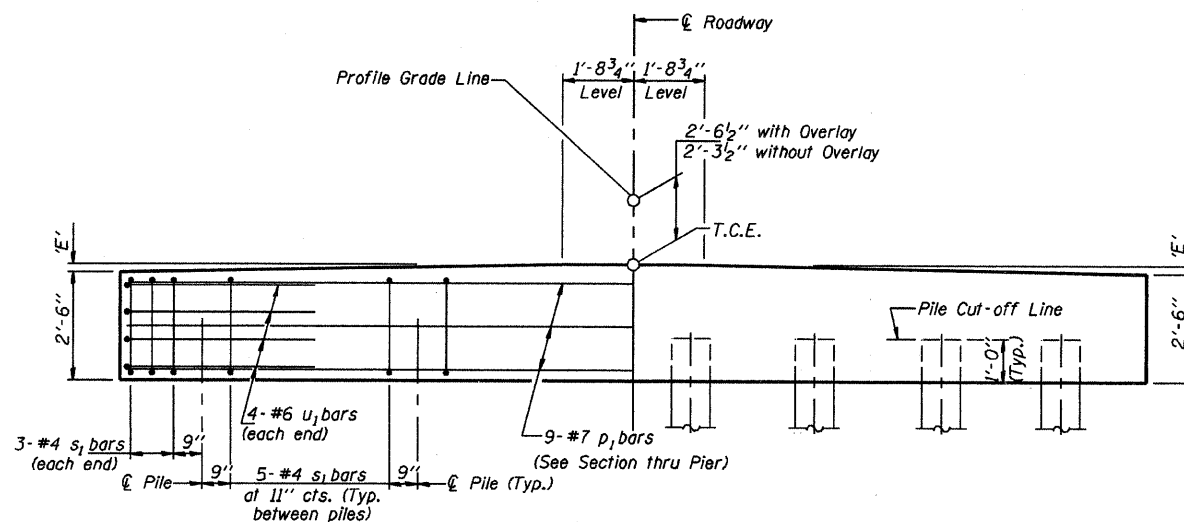


PLAN
(*D*' = Designated Skew Angle)



ELEVATION

DIMENSION 'E'

GRADE	<i>D</i> '=25°		<i>D</i> '=30°	
	UPGRADE END	DOWNGRADE END	UPGRADE END	DOWNGRADE END
0%	3 1/8"	3 1/8"	3"	3"
Over 0% to 1%	2 5/8"	3 1/2"	2 3/8"	3 1/2"
Over 1% to 2%	1 3/4"	4 1/2"	1 3/8"	4 5/8"
Over 2% to 3%	3/4"	5 3/8"	1/4"	5 3/8"
Over 3% to 4%	0"	6 1/4"	—	—

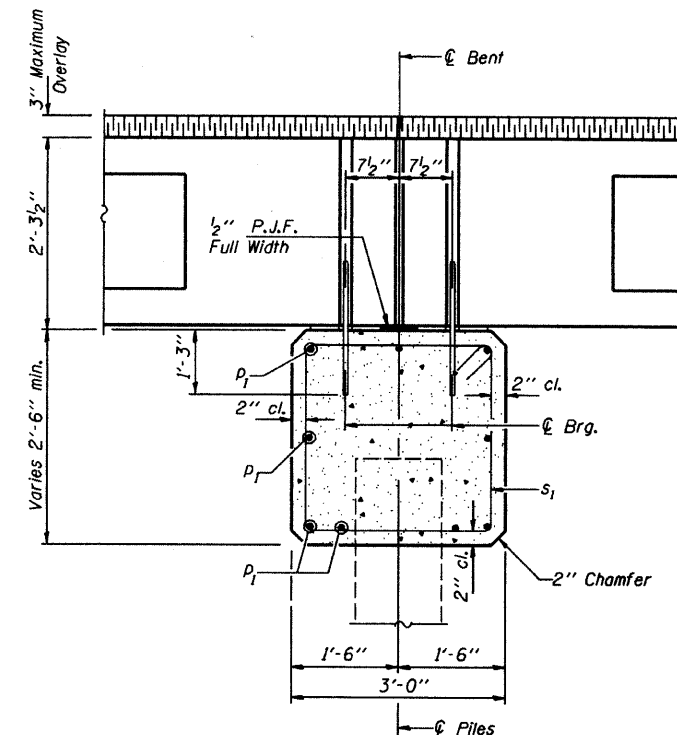
MAXIMUM PILE LOADS

SPAN	TONS
40'	31
50'	36
60'	42

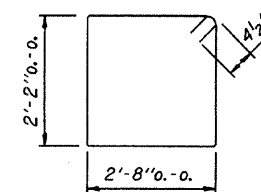
Longer of Either Span Supported by Pier.

DESIGN STRESSES

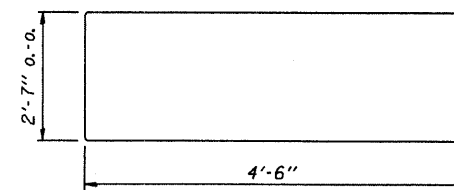
$f'_c = 3,500 \text{ psi}$
 $f_y = 60,000 \text{ psi}$



SECTION THRU PIER
(At Right Angles)



BAR s_1



BAR u_1

BILL OF MATERIAL FOR ONE PIER

Bar	No.	Size	Length	Shape
p_1	9	#7	40'-4"	—
s_1	41	#4	10'-5"	□
u_1	8	#6	11'-7"	—
Concrete Structures			11.9	Cu. Yds.
Reinforcement Bars			1170	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**

33' RDWY. | 27" BMS. | *D*'=25° OR 30°

STANDARD CP-3327-30

Illinois Department of Transportation
 PASSED APRIL 4, 2005
 Thomas J. Romagnoli
 Engineer of Bridge Design
 APPROVED APRIL 4, 2005
 Ralph E. Anderson
 Engineer of Bridges and Structures