

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"	1/2"	4 5/8"
Over 3% to 4%	0"	5 1/8"		

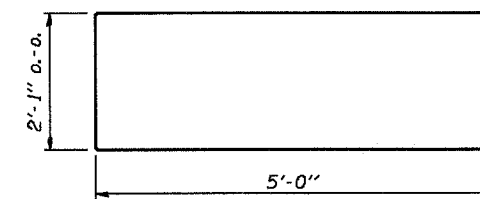
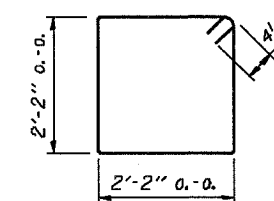
MAXIMUM PILE LOADS

SPAN	TONS
25'	33
30'	37
35'	41
40'	44

Larger of Either Span Supported by Pier.

DESIGN STRESSES

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



BILL OF MATERIAL FOR ONE PIER

Bar	No.	Size	Length	Shape
p	4	#5	29'-2"	—
p2	5	#8	29'-2"	—
s	30	#4	9'-5"	□
u	8	#6	12'-1"	□
Concrete Structures			7.1	Cu. Yds.
Reinforcement Bars			850	Lbs.

NOTE

Reinforcement bars shall conform to A.A.S.H.T.O. M-31, M-42 or M-53, Grade 60.

Illinois Department of Transportation
 PASSED November 1, 1995
 [Signature] Engineer of Bridge Design
 APPROVED November 1, 1995
 [Signature] Engineer of Bridges and Structures

**P.P.C. DECK BEAMS
 PILE BENT PIER**
 24' RDWY. 17" BMS. 'D'=25° OR 30°
 STANDARD CP-2417-30