

ELEVATION

DIMENSION 'E'

GRADE	D'=0°		D'=5°		D'=10°	
	UPGRADE END	DOWNGRADE END	UPGRADE END	DOWNGRADE END	UPGRADE END	DOWNGRADE END
0%	2 3/8"	2 3/8"	2 3/8"	2 3/8"	2 3/8"	2 3/8"
Over 0% to 1%	2 3/8"	2 3/8"	2 1/4"	2 3/8"	2 3/8"	2 1/2"
Over 1% to 2%	2 3/8"	2 3/8"	2 1/8"	2 1/2"	1 7/8"	2 3/4"
Over 2% to 3%	2 3/8"	2 3/8"	2"	2 5/8"	1 5/8"	3"
Over 3% to 4%	2 3/8"	2 3/8"	1 7/8"	2 3/4"	1 3/8"	3 1/4"

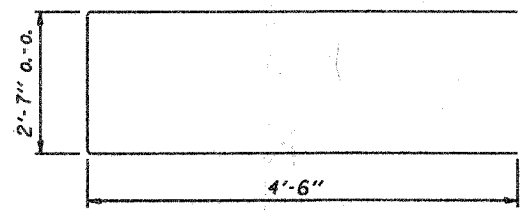
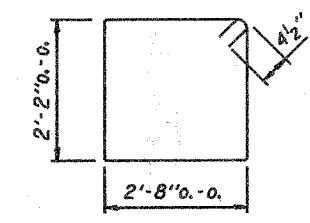
MAXIMUM PILE LOADS

SPAN	TONS
25'	34
30'	38
35'	42
40'	45

Longer 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
p1	9	#8	25'-2"	—
s1	27	#4	10'-5"	□
u1	8	#6	11'-7"	□
Concrete Structures			7.4	Cu. Yds.
Reinforcement Bars			930	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

24' RDWY.	17" BMS.	D'=0°, 5° OR 10°
STANDARD CP-2417-10		

Illinois Department of Transportation

PASSED APRIL 4, 2005

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APPROVED APRIL 4, 2005

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