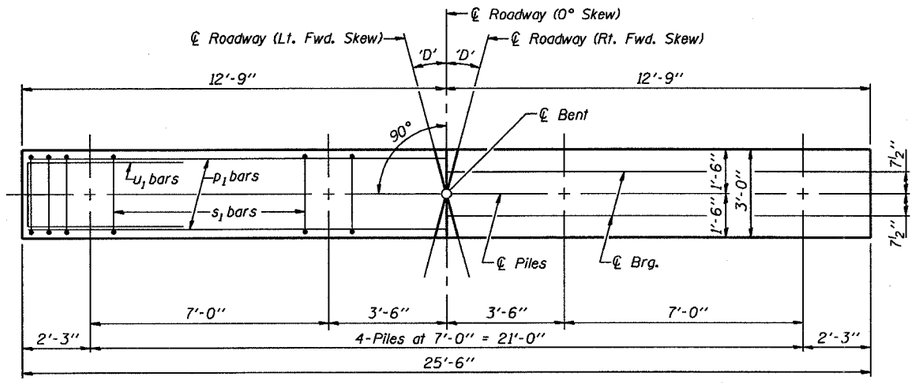
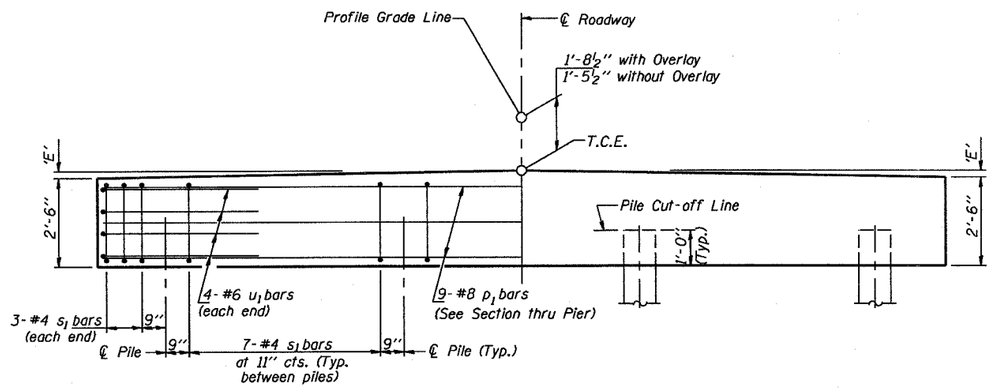
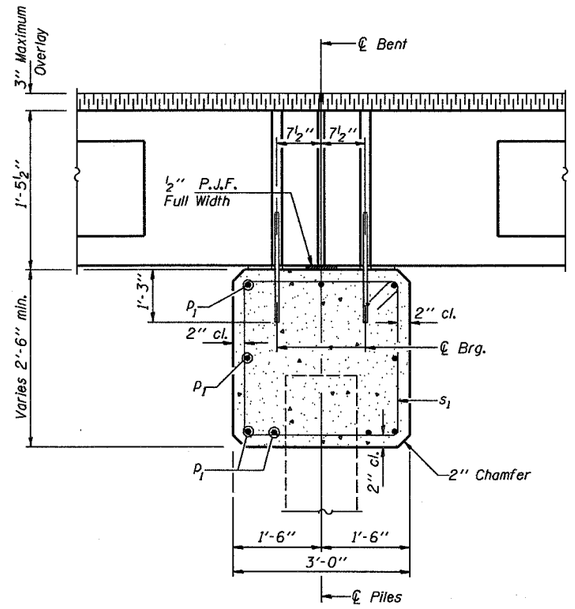


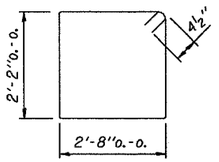
PLAN
('D'= Designated Skew Angle)



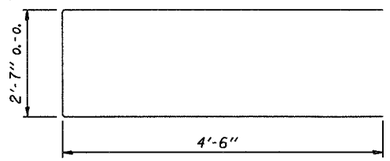
ELEVATION



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	#8	25'-2"	——
s_1	27	#4	10'-5"	□
u_1	8	#6	11'-7"	⊏
Concrete Structures			7.4	Cu. Yds.
Reinforcement Bars			930	Lb.

DIMENSION 'E'

GRADE	'D'=0°		'D'=5°		'D'=10°	
	UPGRADE END	DOWNGRADE END	UPGRADE END	DOWNGRADE END	UPGRADE END	DOWNGRADE END
0%	$2\frac{3}{8}$"	$2\frac{3}{8}$"	$2\frac{3}{8}$"	$2\frac{3}{8}$"	$2\frac{3}{8}$"	$2\frac{3}{8}$"
Over 0% to 1%	$2\frac{3}{8}$"	$2\frac{3}{8}$"	$2\frac{1}{4}$"	$2\frac{3}{8}$"	$2\frac{1}{8}$"	$2\frac{1}{2}$"
Over 1% to 2%	$2\frac{3}{8}$"	$2\frac{3}{8}$"	$2\frac{1}{8}$"	$2\frac{1}{2}$"	$1\frac{7}{8}$"	$2\frac{3}{4}$"
Over 2% to 3%	$2\frac{3}{8}$"	$2\frac{3}{8}$"	2"	$2\frac{5}{8}$"	$1\frac{5}{8}$"	3"
Over 3% to 4%	$2\frac{3}{8}$"	$2\frac{3}{8}$"	$1\frac{7}{8}$"	$2\frac{3}{4}$"	$1\frac{3}{8}$"	$3\frac{1}{4}$"

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

NOTE

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

Illinois Department of Transportation

PASSED APRIL 4, 2005
Thomas S. Domagalski
Engineer of Bridge Design
APPROVED APRIL 4, 2005
Ralph E. Anderson
Engineer of Bridges and Structures

ISSUED 1-1-1981

P.P.C. DECK BEAMS
PILE BENT PIER

24' RDWY.	17" BMS.	'D'=0°, 5° OR 10°

STANDARD CP-2417-10