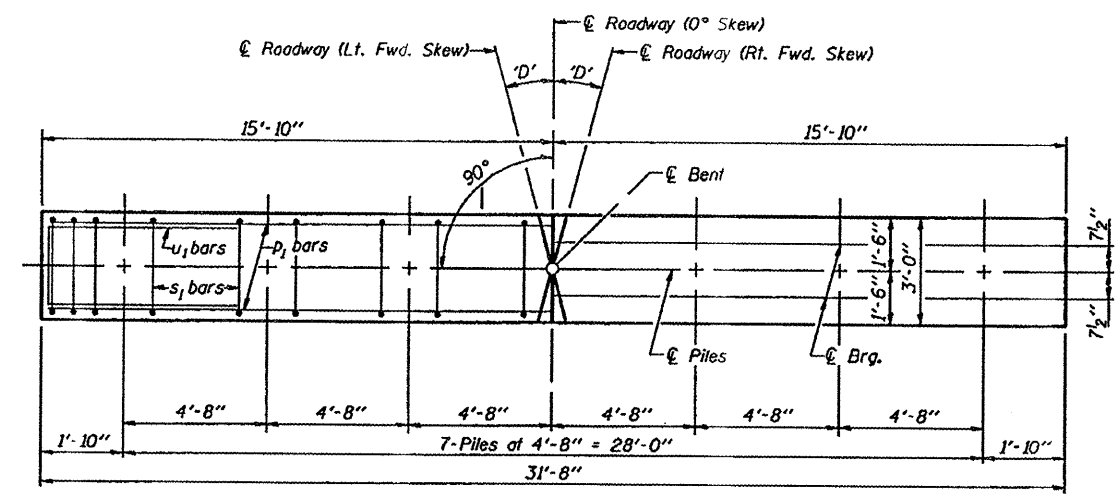
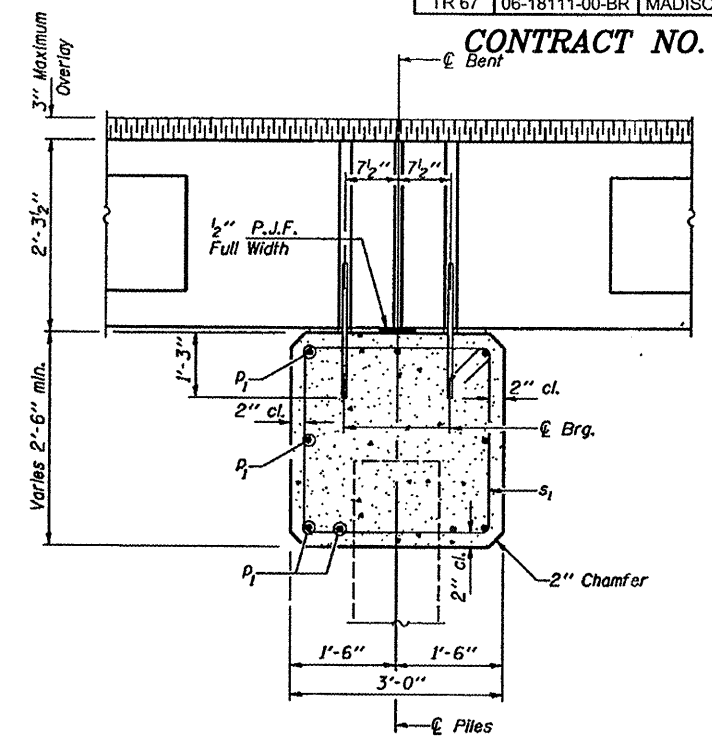


RTE. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 67	06-18111-00-BR	MADISON	20	12

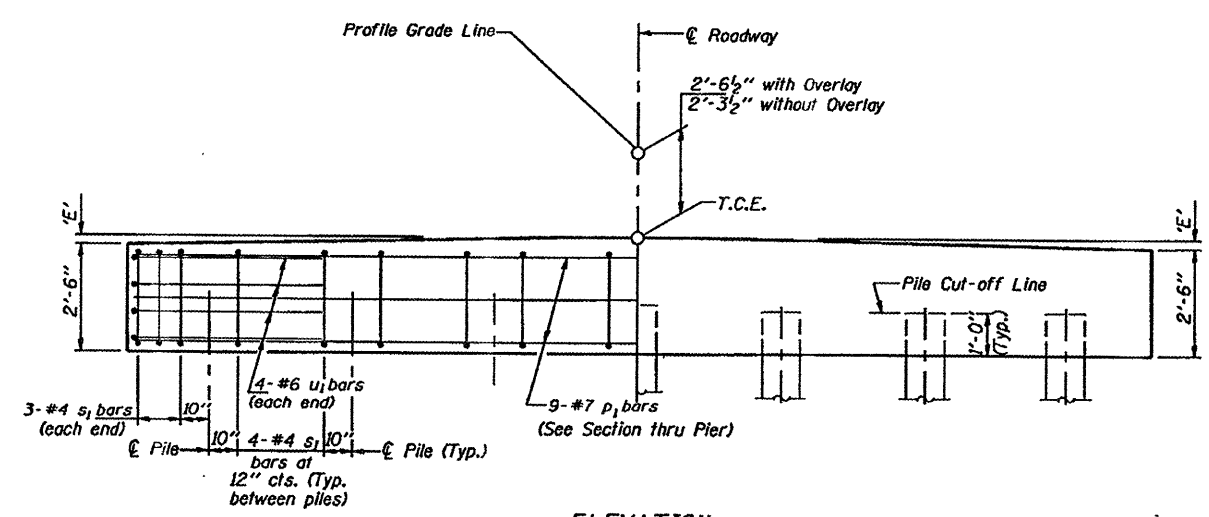
CONTRACT NO. 97356



PLAN  
(\*D' = Designated Skew Angle)



SECTION THRU PIER  
(At Right Angles)



ELEVATION

DIMENSION 'E'

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

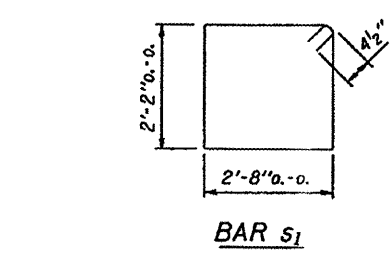
MAXIMUM PILE LOADS

SPAN	TONS
40'	33
50'	39
60'	44

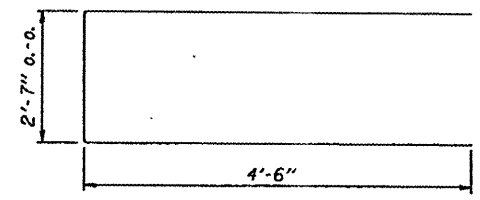
Longer of Either Span Supported by Pier.

DESIGN STRESSES

f<sub>c</sub> = 3,500 psi  
f<sub>y</sub> = 60,000 psi



BAR s<sub>1</sub>



BAR u<sub>1</sub>

BILL OF MATERIAL FOR ONE PIER

Bar	No.	Size	Length	Shape
p <sub>1</sub>	9	#7	31'-4"	—
s <sub>1</sub>	30	#4	10'-5"	□
u <sub>1</sub>	8	#6	11'-7"	—
Concrete Structures			9.1 Cu. Yds.	
Reinforcement Bars			920 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		
30' RDWY.	27" BMS.	D'=0°, 5° OR 10°
STANDARD CP-3027-10		

Illinois Department of Transportation

PASSED APRIL 4, 2005  
Thomson Design  
Engineer of Bridge Design

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