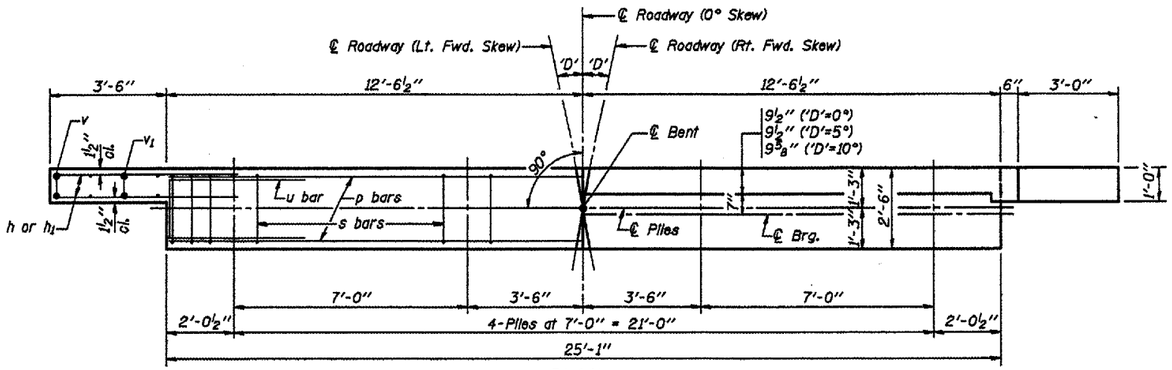
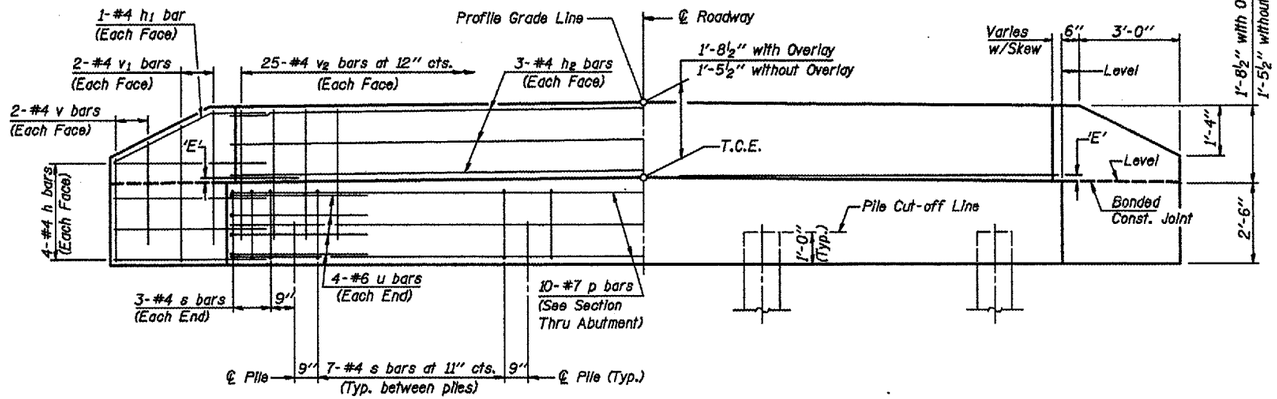
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 328	02-05115-00-BR	JACKSON	11	7
PROJECT NO. BROS-077(39)		CONTRACT NO. 99243		

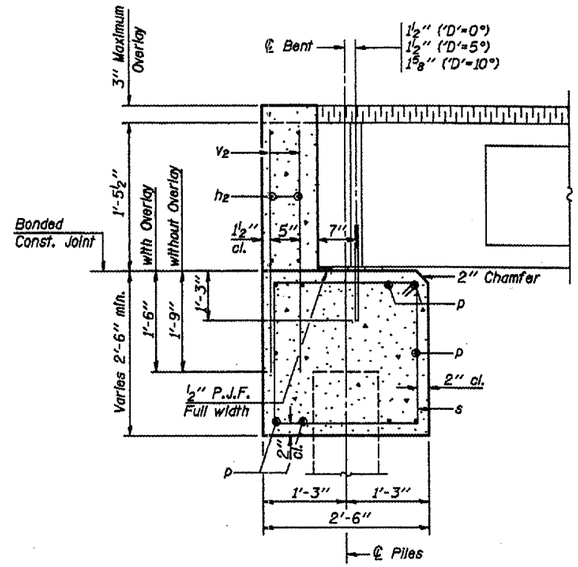


PLAN

('D'=Designated Skew Angle)

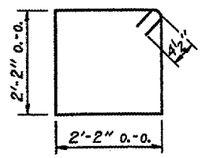


ELEVATION

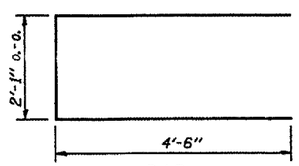


SECTION THRU ABUTMENT

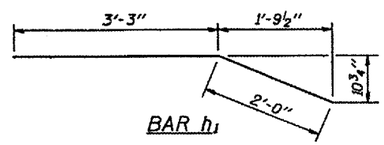
(At Right Angles)



BAR s



BAR u



BAR h1

BILL OF MATERIAL FOR ONE ABUTMENT

Bar	No.	Size	Length	Shape
h	16	#4	5'-0"	
h1	4	#4	5'-3"	
h2	6	#4	24'-9"	
p	10	#7	24'-9"	
s	27	#4	9'-5"	
u	8	#6	11'-1"	
v	8	#4	2'-6"	
v1	8	#4	3'-5"	
v2	50	#4	3'-1"	
Concrete Structures			8.3 Cu. Yds.	
Reinforcement Bars			1110 Lb.	

DIMENSION 'E'

GRADE	'D'=0°		'D'=5°		'D'=10°	
	UPGRADE END	DOWNGRADE END	UPGRADE END	DOWNGRADE END	UPGRADE END	DOWNGRADE END
0%	2⅜"	2⅜"	2⅜"	2⅜"	2⅜"	2⅜"
Over 0% to 1%	2⅜"	2⅜"	2¼"	2⅜"	2⅛"	2½"
Over 1% to 2%	2⅜"	2⅜"	2⅛"	2½"	1⅞"	2¾"
Over 2% to 3%	2⅜"	2⅜"	2"	2⅝"	1⅝"	3"
Over 3% to 4%	2⅜"	2⅜"	1⅞"	2¾"	1⅜"	3¼"

NOTES

1. The Backwall and the portion of the Wingwalls above the bonded construction joint shall be cast against the in-place beam.
2. Reinforcement bars shall conform to the requirements of A.A.S.H.T.O. M-31 or M-322, Grade 60.
3. Space reinforcement in cap to miss anchor bolts.

MAXIMUM PILE LOADS

SPAN	TONS
25'	25
30'	26
35'	28
40'	30

DESIGN STRESSES

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

Illinois Department of Transportation

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

BRF-1-1 (GRSS)

P.P.C. DECK BEAMS
PILE BENT ABUTMENT

24' RDWY.	17" BMS.	'D'=0°, 5° OR 10°

STANDARD CA-2417-10