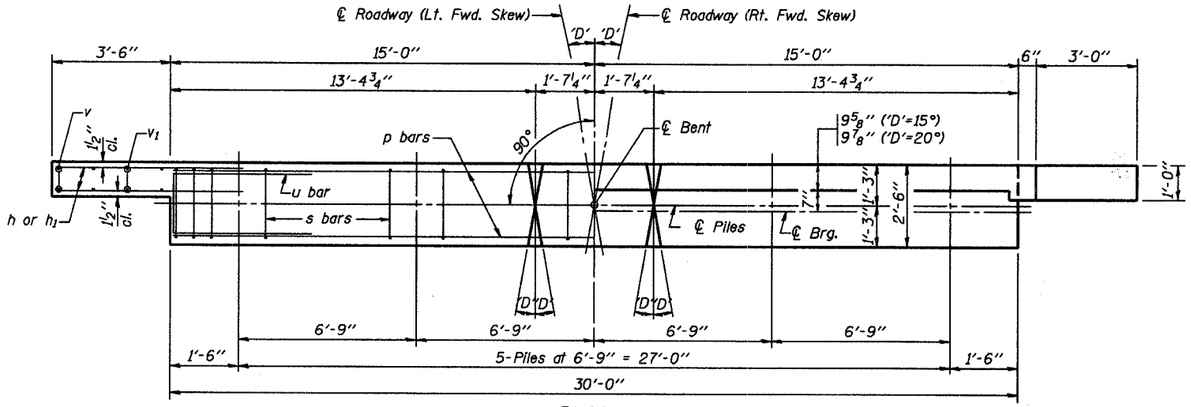
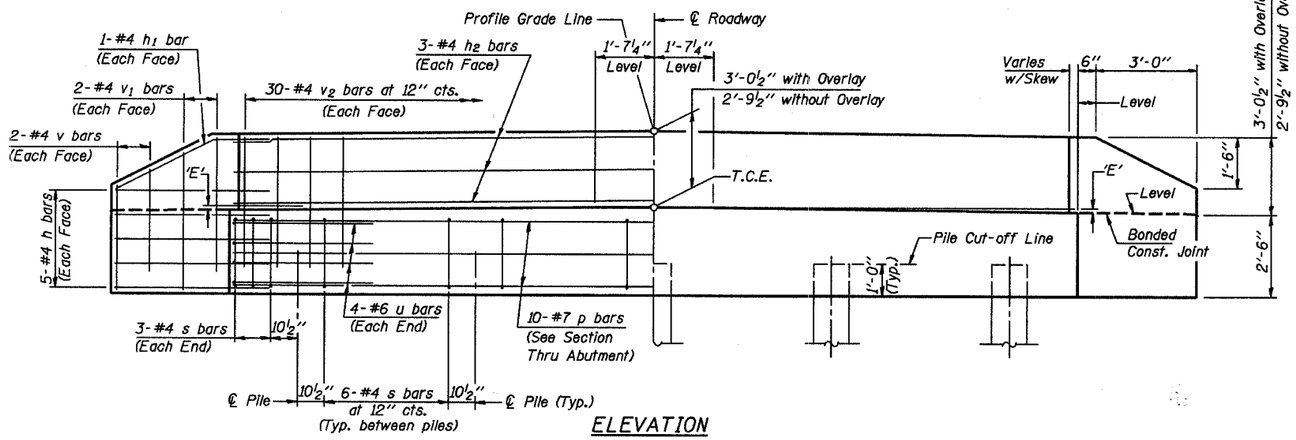
CONTRACT #95451

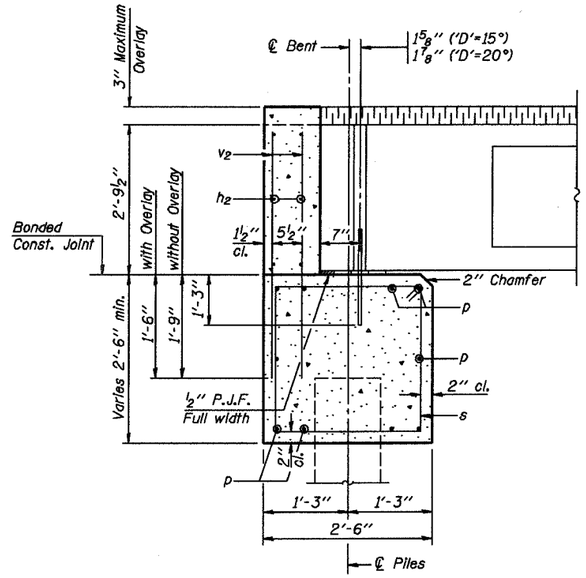


PLAN

('D'=Designated Skew Angle)

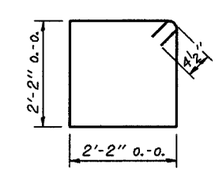


ELEVATION

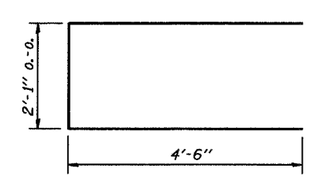


SECTION THRU ABUTMENT

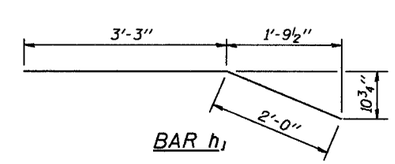
(At Right Angles)



BAR s



BAR u



BAR h1

BILL OF MATERIAL FOR ONE ABUTMENT

Bar	No.	Size	Length	Shape
h	20	#4	5'-0"	
h1	4	#4	5'-3"	
h2	6	#4	29'-8"	
p	10	#7	29'-8"	
s	30	#4	9'-5"	
u	8	#6	11'-1"	
v	8	#4	3'-8"	
v1	8	#4	4'-8"	
v2	60	#4	4'-5"	
Concrete Structures			11.3 Cu. Yds.	
Reinforcement Bars			1350 Lb.	

DIMENSION 'E'

GRADE	'D'=15°		'D'=20°	
	UPGRADE END	DOWNGRADE END	UPGRADE END	DOWNGRADE END
0%	2⅜"	2⅜"	2⅜"	2⅜"
Over 0% to 1%	2¼"	2⅝"	2⅛"	2⅝"
Over 1% to 2%	1¾"	3"	1½"	3⅛"
Over 2% to 3%	1⅜"	3½"	1"	3¾"
Over 3% to 4%	1"	3⅞"	⅜"	4¼"

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
60'	37
70'	40
75'	41

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

ISSUED 4-4-2005

P.P.C. DECK BEAMS
PILE BENT ABUTMENT

27' RDWY.	33" BMS.	'D'=15° OR 20°

STANDARD CA-2733-20