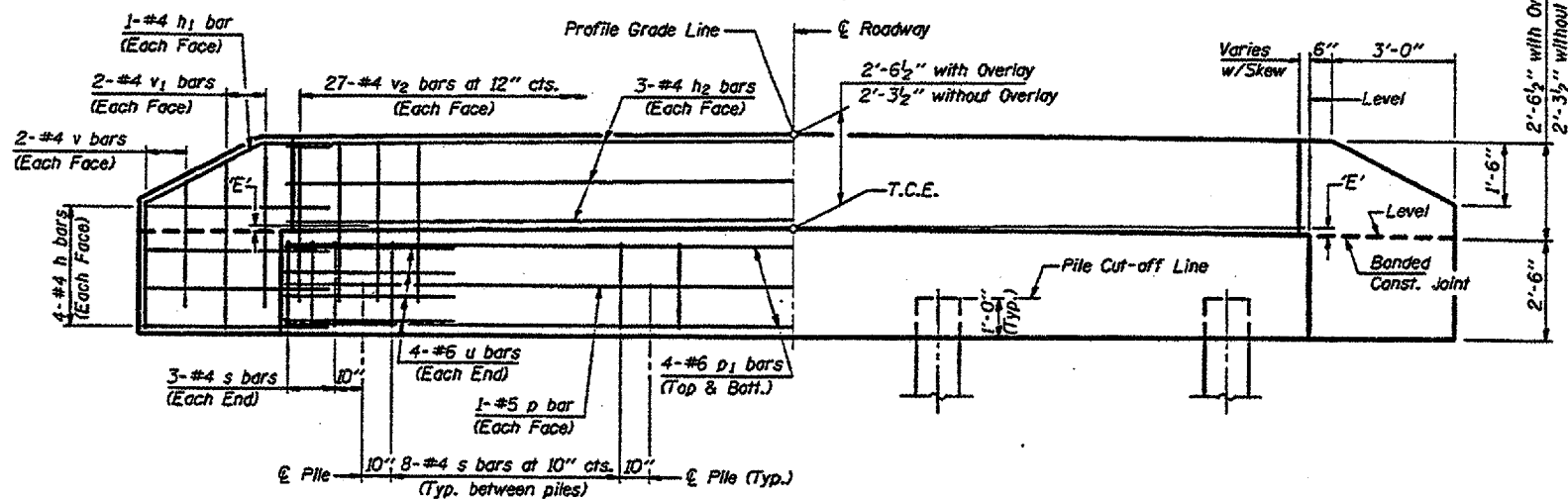


PLAN
(D' = Designated Skew Angle)



ELEVATION

DIMENSION 'E'

GRADE	D'=15°		D'=20°	
	UPGRADE END	DOWNGRADE END	UPGRADE END	DOWNGRADE END
0X	2 3/8"	2 3/8"	2 3/8"	2 3/8"
Over 0X to 1X	2 1/4"	2 5/8"	2 1/2"	2 5/8"
Over 1X to 2X	1 3/4"	3"	1 1/2"	3 1/8"
Over 2X to 3X	1 3/8"	3 1/2"	1"	3 3/4"
Over 3X to 4X	1"	3 7/8"	3/8"	4 1/4"

NOTES

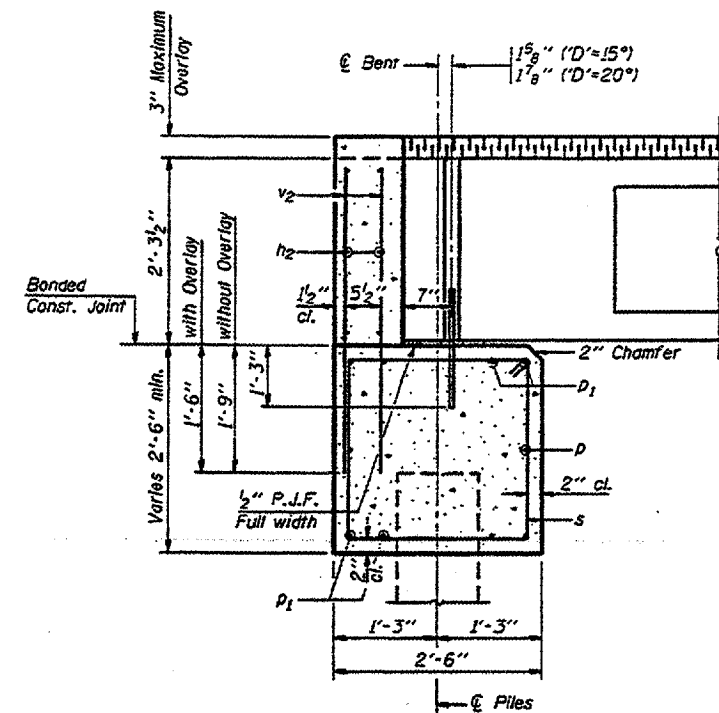
- The Backwall and the portion of the Wingwalls above the bonded construction joint shall be cast against the in-place beam.
- Reinforcement bars shall conform to A.A.S.H.T.O. M-31, M-42 or M-53, Grade 60.

MAXIMUM PILE LOADS

SPAN	TONS
40'	34
50'	38
60'	43

DESIGN STRESSES

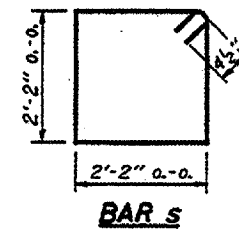
f'c = 3,500 psi
fy = 60,000 psi



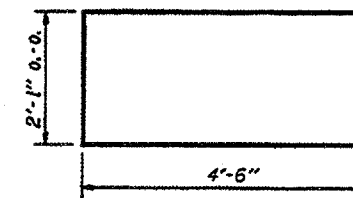
SECTION THRU ABUTMENT
(At Right Angles)

BILL OF MATERIAL FOR ONE ABUTMENT

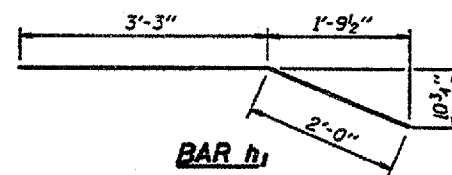
Bar	No.	Size	Length	Shape
h	16	#4	5'-0"	—
h1	4	#4	5'-3"	—
h2	6	#4	26'-5"	—
p	2	#5	26'-5"	—
p1	8	#6	26'-5"	—
s	30	#4	9'-5"	⊥
u	8	#6	11'-1"	⊥
v	8	#4	3'-2"	—
v1	8	#4	4'-2"	—
v2	54	#4	3'-11"	—
Concrete Structures			9.7 Cu. Yds.	
Reinforcement Bars			1050 Lbs.	



BAR s



BAR u



BAR h1

Illinois Department of Transportation
PASSED November 1, 1995
Eng. O. [Signature]
Engineer of Bridge Design
APPROVED November 1, 1995
Eng. R. [Signature]
Engineer of Bridges and Structures

**P.P.C. DECK BEAMS
PILE BENT ABUTMENT**
24' RDWY. 27' BMS. D'=15° OR 20°
STANDARD CA-2427-20