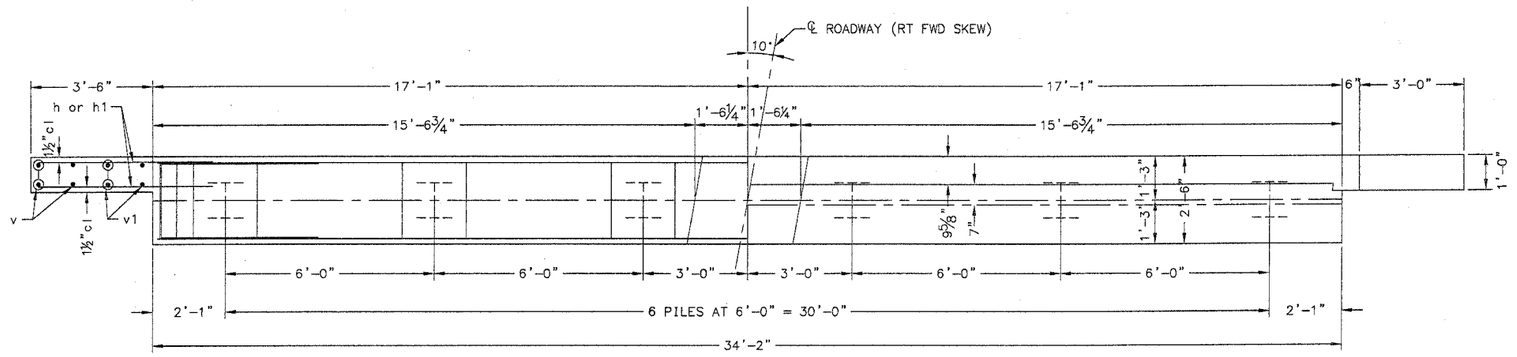
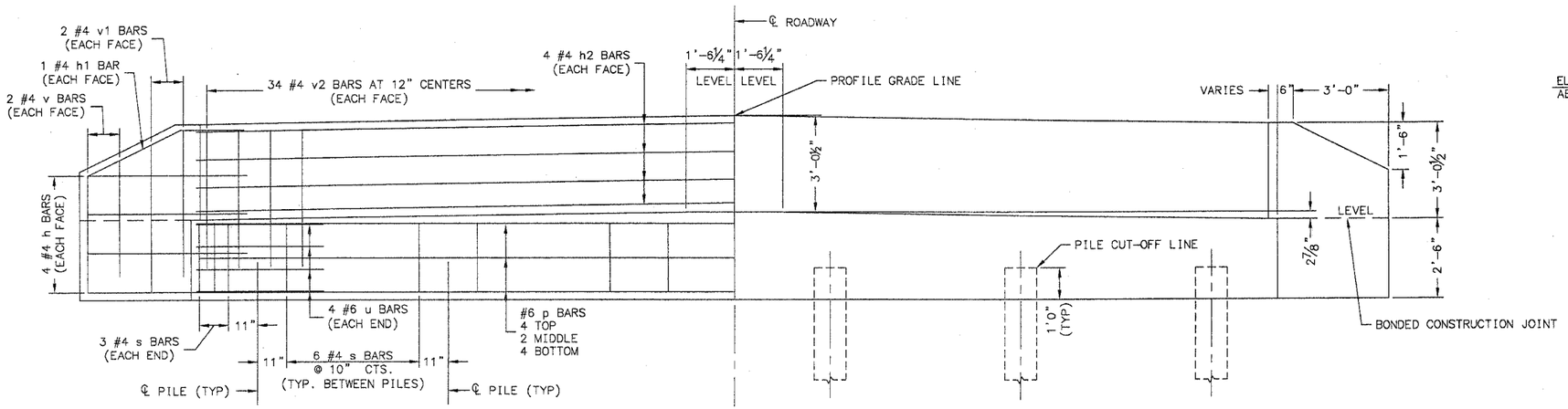
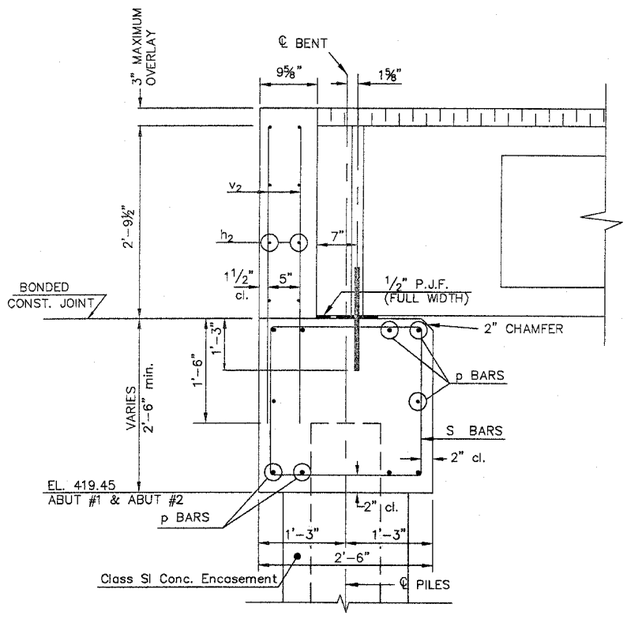
SECTION NO.	COUNTY HIGHWAY	COUNTY	SHEET OF SHEETS
02-00161-02-BR	C.H.34	ST. CLAIR	13 of 22
FHWA REG.NO.7	ILLINOIS	PROJ: BRM-5011(188)	
ABUTMENT DETAILS		CONTRACT 97280	



PLAN



ELEVATION



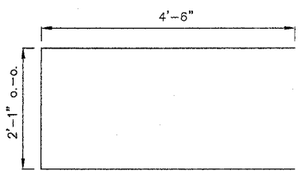
SECTION THRU ABUTMENT
(AT RIGHT ANGLES)

NOTES

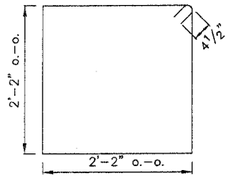
1. THE BACKWALL AND THE PORTION OF THE WINGWALLS ABOVE THE BONDED CONSTRUCTION JOINT SHALL BE CAST AGAINST THE IN-PLACE BEAMS.
2. REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A706 GRADE 60 (IL MODIFIED)
3. ALL REINFORCEMENT BARS SHOWN SHALL BE EPOXY COATED

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

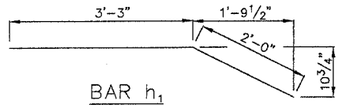
MAXIMUM PILE LOAD
80' SPAN = 54 TONS



BAR u



BAR s



BAR h_1

BILL OF MATERIAL
FOR ONE ABUTMENT

Bar	No.	Size	Length	Shape
h	16	#4	5'-0"	——
h_1	4	#4	5'-3"	——
h_2	8	#4	33'-10"	——
p	10	#6	33'-10"	——
s	36	#4	9'-5"	□
u	8	#6	11'-1"	⊏
v	8	#4	3'-8"	——
v_1	8	#4	4'-8"	——
v_2	68	#4	4'-2"	——
CONCRETE STRUCTURES			12.7 CU YD	
REINFORCEMENT BARS, EPOXY COATED			1350 LBS	

	INITIALS	DATE
DESIGNED	WES	7/04
CHECKED		
DRAWN	WES	7/04
CHECKED		
PREPARED BY ST. CLAIR COUNTY		
CADD DRAWING FILE: ABUTMENT		

PLOT DATE: 3/07

P.P.C. DECK BEAMS
PILE BENT ABUTMENT
33' RDWY. | 33" BMS.
10° SKEW RT. FWD