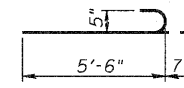
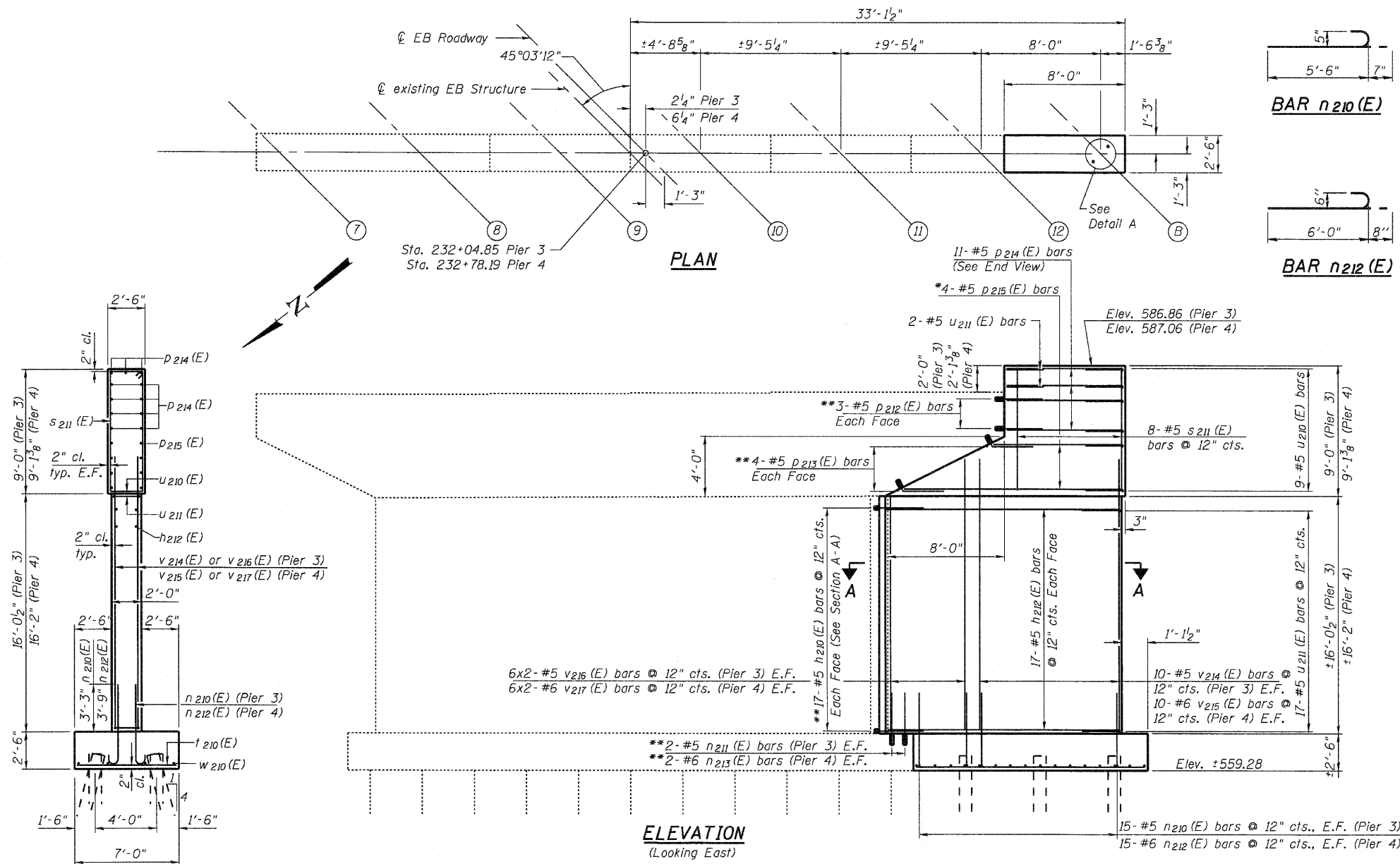
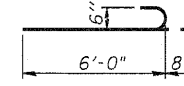


PLOT DATE = 7/21/2010
FILE NAME = 4081-0018-0018-046-PIER 3-4-EB.dgn
PLOT SCALE = 0.1/0.25397" / 1" / IN.
USER NAME = CFC



BAR n₂₁₀(E)



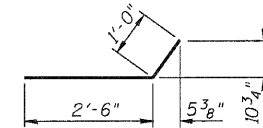
BAR n₂₁₂(E)



BAR u₂₁₀(E)



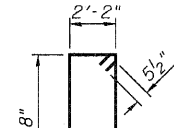
BAR h₂₁₀(E)



BAR p₂₁₃(E)



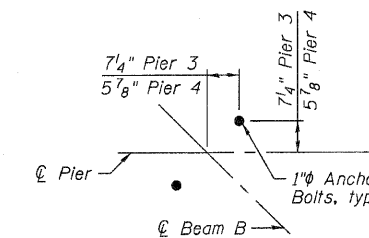
BAR u₂₁₁(E)



BAR s₂₁₁(E)

MIN. LAP

#5 bar = 2'-7"
#6 bar = 3'-1"



DETAIL A

- * Order p₂₁₅(E) bars Full Length. Cut in field to fit. Use remainder in opposite Face.
- ** Epoxy Grout p₂₁₂(E), p₂₁₃(E), h₂₁₀(E), n₂₁₁(E), n₂₁₃(E) and u₂₁₁(E) bars into 9" drilled holes according to Section 584 of the Standard Specifications. The center of the holes shall be a minimum of 4" from the face of the existing structure.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h ₂₁₀ (E)	68	#5	3'-6"	
h ₂₁₂ (E)	68	#5	14'-7"	
n ₂₁₀ (E)	30	#5	6'-1"	
n ₂₁₁ (E)	4	#5	4'-0"	
n ₂₁₂ (E)	30	#6	6'-8"	
n ₂₁₃ (E)	4	#6	4'-6"	
p ₂₁₂ (E)	12	#5	3'-5"	
p ₂₁₃ (E)	16	#5	3'-6"	
p ₂₁₄ (E)	22	#5	7'-8"	
p ₂₁₅ (E)	8	#5	23'-4"	
s ₂₁₁ (E)	16	#5	22'-7"	
t ₂₁₀ (E)	32	#7	6'-8"	
u ₂₁₀ (E)	22	#5	7'-9"	
u ₂₁₁ (E)	34	#5	8'-2"	
v ₂₁₄ (E)	20	#5	17'-10"	
v ₂₁₅ (E)	20	#6	18'-4"	
v ₂₁₆ (E)	24	#5	10'-3"	
v ₂₁₇ (E)	24	#6	10'-9"	
w ₂₁₀ (E)	16	#5	14'-8"	
w ₂₁₁ (E)	16	#5	3'-5"	
Structure Excavation		Cu. Yd.	119	
Concrete Structures		Cu. Yd.	73.4	
Reinforcement Bars, Epoxy Coated		Pound	5440	
Furnishing Steel Piles, HP 10x42		Foot	216	
Driving Piles		Foot	216	

**PIERS 3 & 4
STRUCTURE NO. 081-0018 (EB)**

Coombe-Bloxdorf P.C.
-CIVIL ENGINEERS-
-STRUCTURAL ENGINEERS-
-LAND SURVEYORS-
Design Firm License No. 184-002703

PROJECT NO. 09033
SCALE
DATE 6/4/2010
DESIGN BY BD/MCB
DRAWN BY MML
CHECKED BY MCB

SHEET NO. 46

55 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
280	81-1 (VB) R	ROCK ISLAND	503	232
CONTRACT NO. 64815				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				