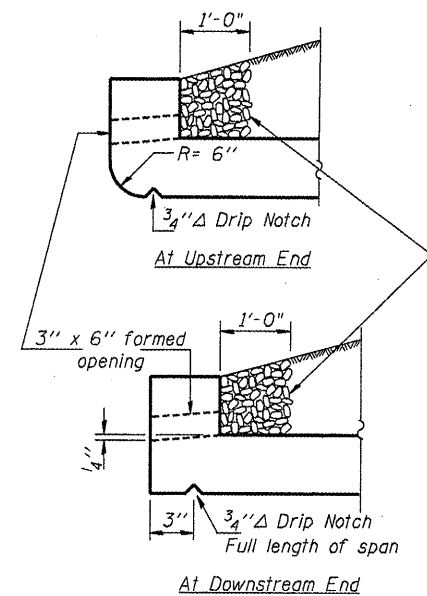


SECTION THRU BARREL

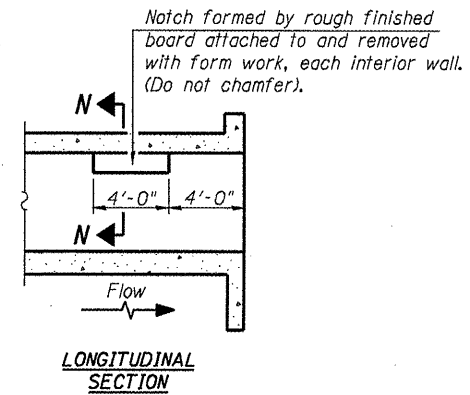


DRAIN DETAIL

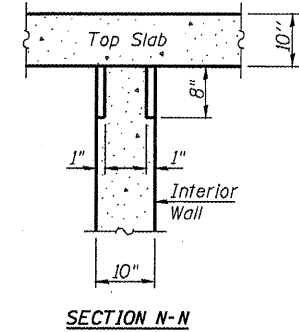
BILL OF MATERIAL

Bar	No.		Size	Length	Shape
	Stage I	Stage II			
a ₁	88	130	#9	14'-0"	—
a ₂	86	128	#6	29'-0"	—
a ₃	110	162	#7	30'-8"	U
d ₁	324	483	#5	3'-9"	—
d ₂	28	28	#4	4'-6"	—
h ₁	46		#6	31'-0"	—
h ₂	46	46	#6	25'-0"	—
h ₃	96	140	#6	28'-0"	—
h ₄		92	#6	30'-0"	—
h ₅	12	4	#6	28'-6"	—
h ₆	60	90	#7	28'-6"	—
h ₇	4	4	#9	15'-8"	—
h ₈	6	6	#9	16'-0"	—
h ₉	1	1	#8	14'-9"	—
h ₁₀	1	1	#8	13'-0"	—
h ₁₁	1	1	#7	11'-3"	—
h ₁₂	1	1	#7	8'-9"	—
h ₁₃	1	1	#6	6'-6"	—
h ₁₄	1	1	#6	13'-9"	—
h ₁₅	10	10	#6	8'-11"	—
h ₁₆	23	23	#4	26'-0"	—
n ₁ (E)	35	35	#6	6'-6"	U
n ₂ (E)	35	35	#5	3'-8"	U
s ₁	84		#4	4'-10"	□
s ₂		28	#4	4'-8"	□
t ₁	54	54	#6	8'-7"	—
v ₁	324	483	#5	10'-2"	—
v ₂	3	3	#5	22'-9"	—
v ₃	2	2	#5	11'-6"	—
v ₄	35	35	#5	6'-9"	—
v ₅	35	35	#4	8'-5"	—
v ₆	8	8	#4	13'-10"	—
w ₁	12	12	#5	26'-0"	—
Bar Splicers			Each	120	
Concrete Box Culverts			Cu. Yd.	393.2	
Reinforcement Bars			Pound	83,790	
Reinforcement Bars, Epoxy Coated			Pound	960	

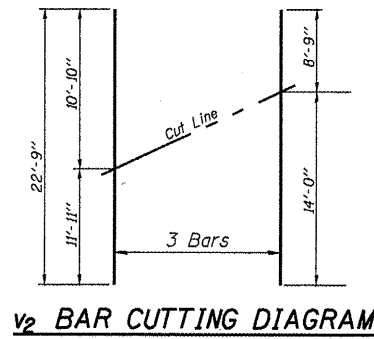
*See cutting diagram



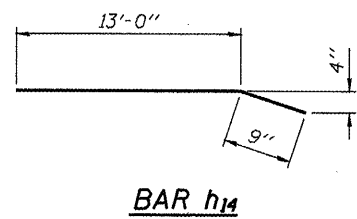
LONGITUDINAL SECTION



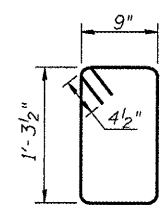
PHOEBE NESTING SITE DETAILS (Downstream End Only)



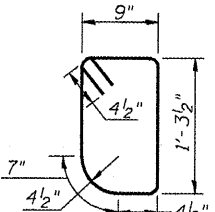
v₂ BAR CUTTING DIAGRAM



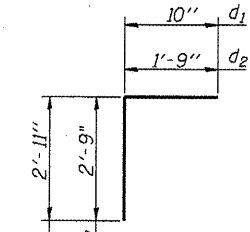
BAR h₁₄



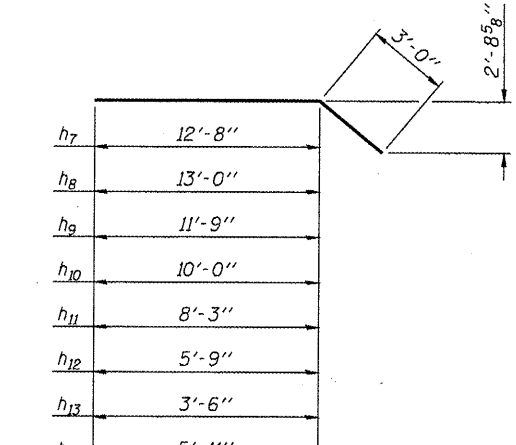
BAR s₁



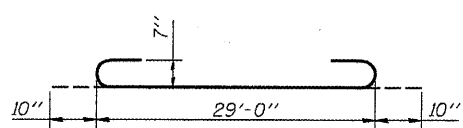
BAR s₂



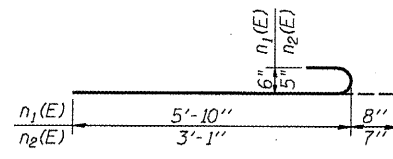
BARS d₁ & d₂



BARS h₇, h₈, h₉, h₁₀, h₁₁, h₁₂, h₁₃ & h₁₅



BAR a₃



BAR n₁(E) & BAR n₂(E)

BENDING DIAGRAMS

MIN. BAR LAPS (U.N.)

- #4 bar - 1'-4"
- #5 bar - 1'-8"
- #6 bar - 2'-0"
- #7 bar - 2'-9"
- #9 bar - 4'-7"