



**NORTH ABUTMENT
 BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h(E)	42	#7	13'-0"	—
h ₁ (E)	8	#7	19'-0"	—
h ₂ (E)	4	#5	10'-6"	—
h ₃ (E)	4	#5	2'-6"	—
p(E)	40	#8	35'-10"	—
p ₁ (E)	2	#5	37'-8"	—
p ₂ (E)	4	#5	9'-11"	—
p ₃ (E)	4	#5	20'-6"	—
p ₄ (E)	2	#5	30'-0"	—
s ₂ (E)	152	#5	13'-11"	□
s ₃ (E)	36	#5	4'-4"	□
s ₄ (E)	4	#5	14'-11"	□
s ₅ (E)	112	#5	8'-8"	□
s ₆ (E)	3	#5	9'-2"	□
sp(E)	18	#4	2'-0"	WWW
u(E)	8	#6	11'-4"	┌
u ₁ (E)	8	#5	9'-2"	┌
v ₁ (E)	240	#8	5'-11"	—
v ₂ (E)	4	#5	10'-2"	—
v ₃ (E)	8	#5	15'-9"	—
v ₄ (E)	4	#5	9'-5"	—
v ₅ (E)	8	#5	14'-3"	—
Structure Excavation		CU YD	460	
Concrete Structures		CU YD	82.4	
Reinforcement Bars, Epoxy Coated		POUND	13,990	
Furnishing Steel Piles HP14x73		FOOT	629	
Driving Piles		FOOT	629	
Test Pile Steel HP14x73		EACH	1	
Pile Shoes		EACH	18	

*Length is height of spiral.

