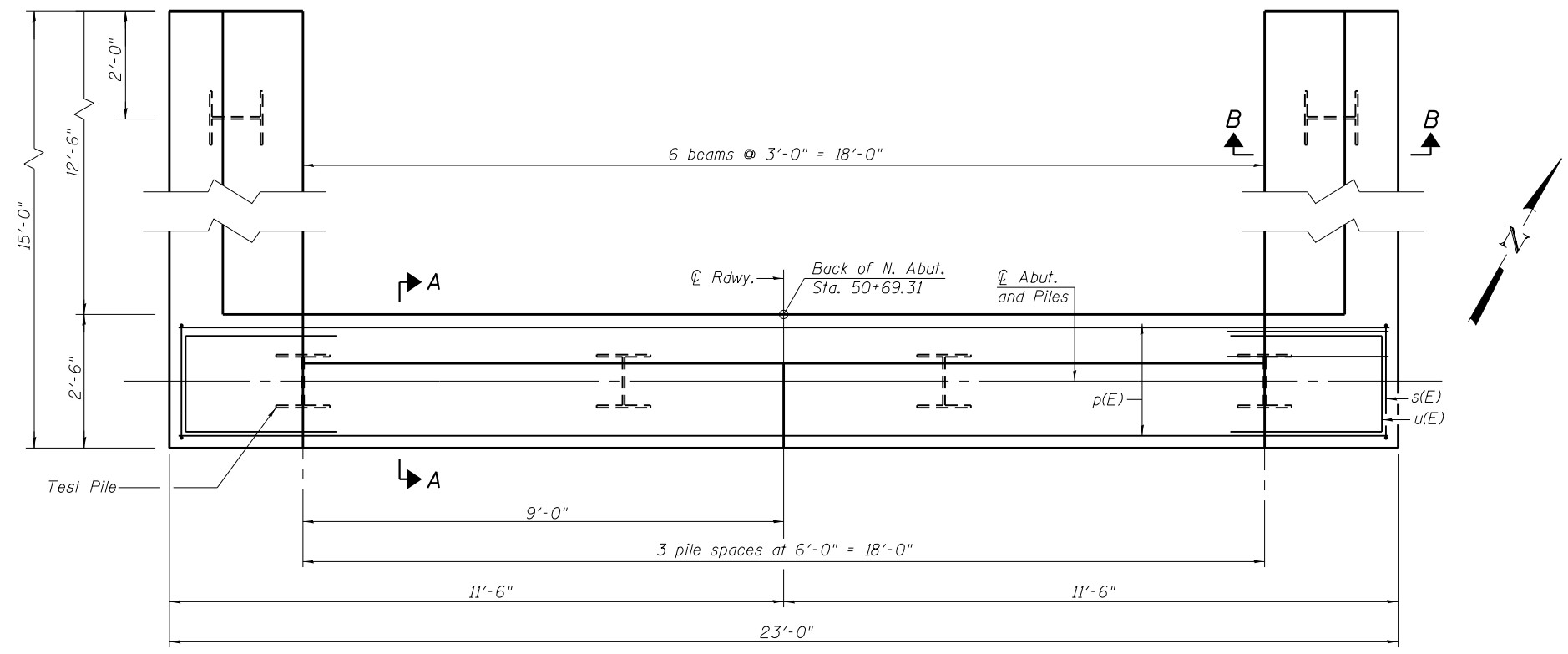


**ELEVATION**  
(Looking North)



**PLAN**

**Notes**  
Cast top of wingwall flush with exterior beam face after beams have been erected.  
For Abutment Sections and Details, see Sheet 10 of 12.  
2'-6" x 2'-6" x 1'-9 1/2" Abutment Corners to be included with Concrete Superstructures.

**BILL OF MATERIAL  
NORTH ABUTMENT**

Bar	No.	Size	Length	Shape
d(E)	26	#5	6'-3"	┌┐
d1(E)	26	#5	4'-1"	┌┐
d2(E)	6	#6	6'-9"	┌┐
d3(E)	6	#6	4'-7"	┌┐
h(E)	6	#5	17'-8"	┌┐
h1(E)	40	#5	12'-2"	┌┐
n(E)	52	#6	6'-3"	┌┐
p(E)	24	#5	22'-8"	┌┐
p1(E)	20	#6	12'-2"	┌┐
s(E)	22	#5	23'-5"	┌┐
s1(E)	26	#5	9'-7"	┌┐
u(E)	20	#5	7'-3"	┌┐
u1(E)	6	#5	6'-6"	┌┐
u2(E)	6	#6	9'-10"	┌┐
v(E)	38	#5	4'-5"	┌┐
v1(E)	16	#5	4'-5"	┌┐
v2(E)	52	#6	8'-4"	┌┐
Structure Excavation	Cu. Yd.		95	
Concrete Structures	Cu. Yd.		34.1	
Reinforcement Bars, Epoxy Coated	Pound		4,400	
Furnishing Steel Piles, HP 12x63	Foot		128	
Driving Piles	Foot		128	
Test Pile, HP12x63	Each		1	
Concrete Encasement	Cu. Yd.		2.1	

For details of piles and Concrete Encasement, see sheet 11 of 12.

**PILE DATA**

Type: HP 12x63  
Nominal Required Bearing: 497k  
Factored Resistance Available: 273k  
Est. Length: 22.5 ft. (Wingwalls)  
Est. Length: 27.5 ft. (Cap)  
No. Production Piles: 5  
No. Test Piles: 1