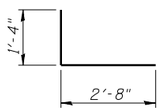
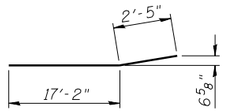
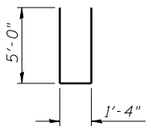


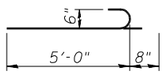
BAR h2(E)



BAR h4(E)



BAR n(E)



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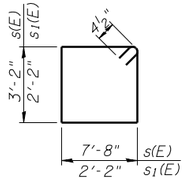
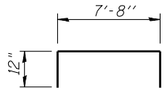
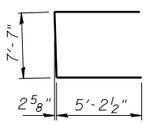


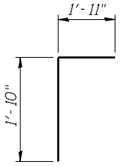
BARS s(E) & s1(E)



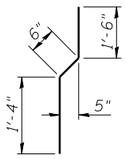
BAR s2(E)



BAR u3(E)



BAR v(E)



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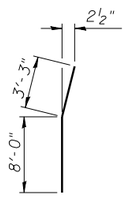

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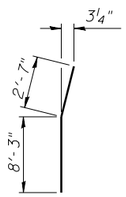
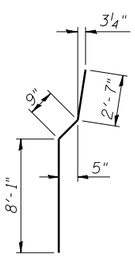


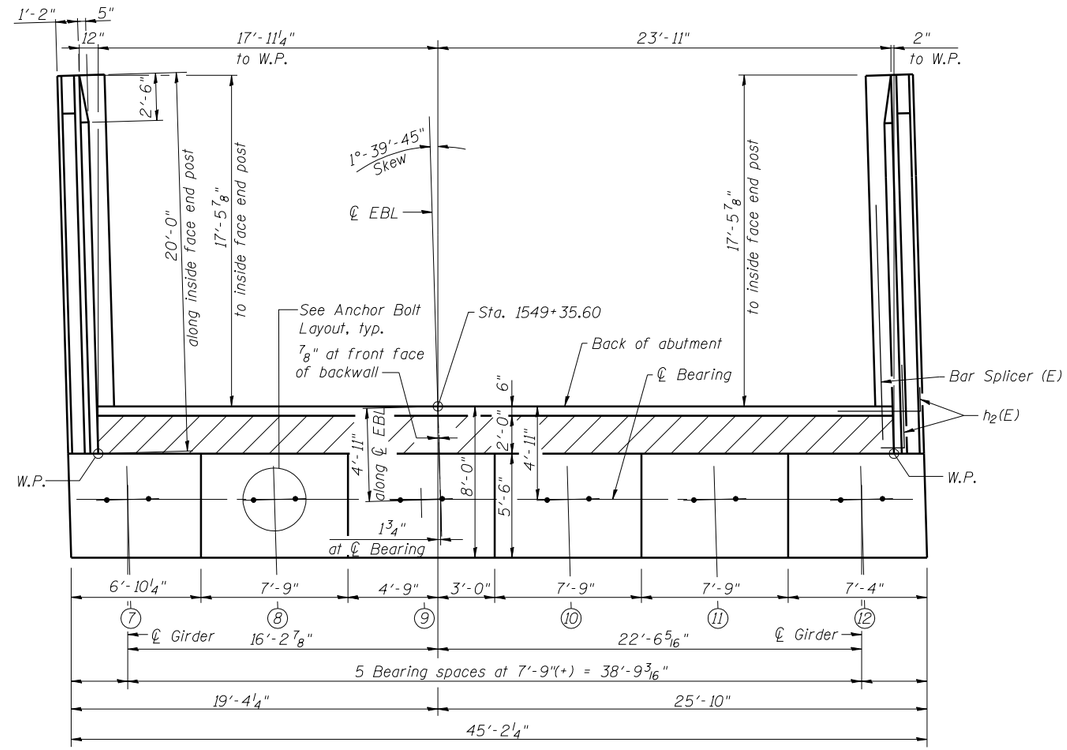
BAR v3(E)



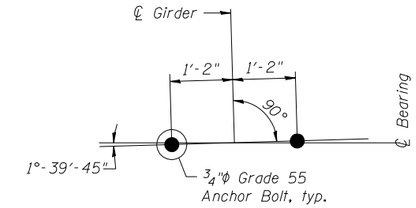
BAR v4(E)

PILE DATA

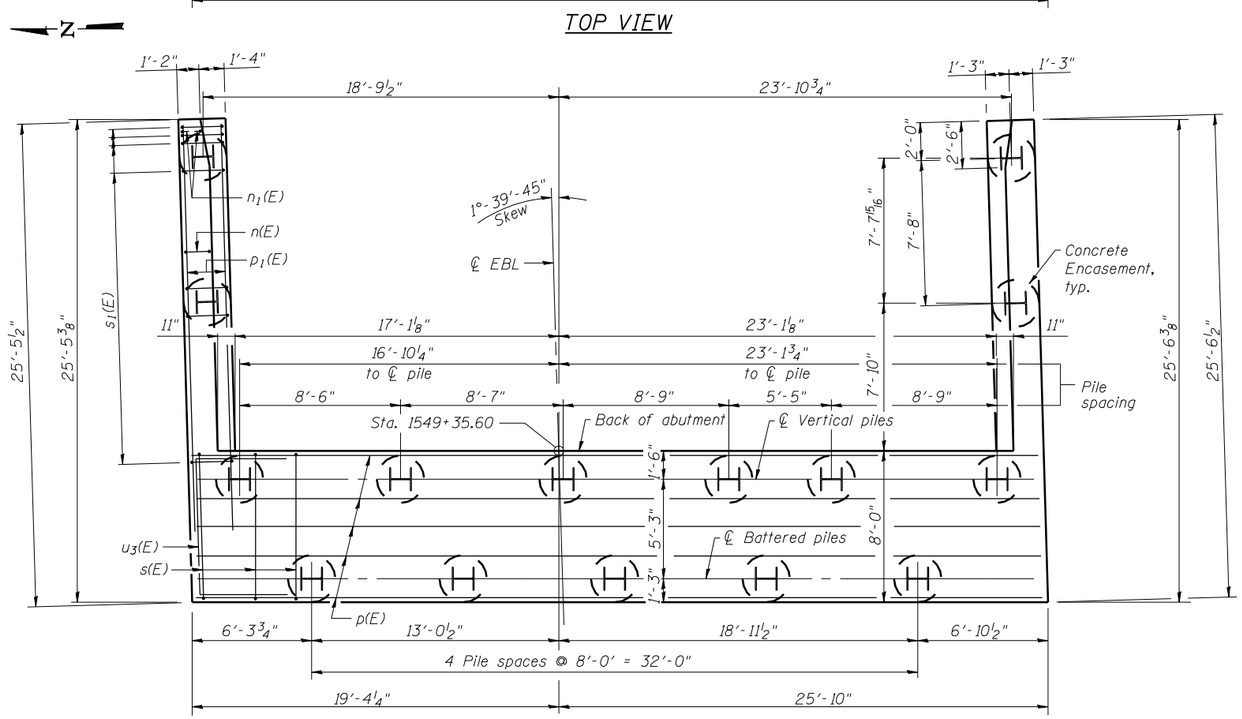
Type: HP14x73
Nominal Required Bearing: 578 kips
Factored Resistance Available: 318 kips
Est. Length: 92 feet
No. Production Piles: 15
No. Test Piles: 0



TOP VIEW



ANCHOR BOLT LAYOUT



PLAN-PILE CAP

EAST ABUTMENT BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	14	#5	41'-8"	
h1(E)	5	#6	41'-8"	
h2(E)	32	#5	4'-0"	
h3(E)	32	#4	19'-8"	
h4(E)	20	#4	19'-7"	
h5(E)	5	#4	7'-5"	
n(E)	36	#6	11'-4"	
n1(E)	12	#6	5'-8"	
p(E)	14	#7	44'-10"	
p1(E)	12	#7	22'-0"	
s(E)	73	#4	22'-5"	
s1(E)	36	#4	9'-5"	
s2(E)	8	#4	9'-8"	
u3(E)	8	#6	18'-0"	
v(E)	42	#5	3'-9"	
v1(E)	42	#4	3'-4"	
v2(E)	42	#6	11'-3"	
v3(E)	6	#6	10'-10"	
v4(E)	36	#6	11'-5"	
v5(E)	42	#5	8'-10"	
v6(E)	42	#5	7'-8"	
Structure Excavation		Cu. Yd.	270	
Concrete Structures		Cu. Yd.	103.8	
Reinforcement Bars, Epoxy Coated		Pound	8300	
Furnishing Steel Piles HP14x73		Foot	1380	
Driving Piles		Foot	1380	
Concrete Encasement		Cu. Yd.	8.2	
Concrete Sealer		Sq. Ft.	713	
Granular Backfill for Structures		Cu. Yd.	125	
Geocomposite Wall Drain		Sq. Yd.	48	
Pipe Underdrains for Structures 4"		Foot	75	

For details of Bar Splicers, see sheet 107 of 113.
For details of piles and Concrete Encasement, see sheet 106 of 113.
The locations of some abutment piles may need to be adjusted in the field. Otherwise, conflicts may occur between the proposed back row of abutment piles and the battered piles in the front row of the existing abutments. The concrete caps at the exisitng abutments shall be removed and locations of existing piles verified prior to driving any proposed piles. If conflicts exist, the proposed pile locations shall be adjusted and reinforcement stirrups relocated as directed by the Engineer. The maximum pile spacing in the back row of the proposed abutments shall be 8'-9".