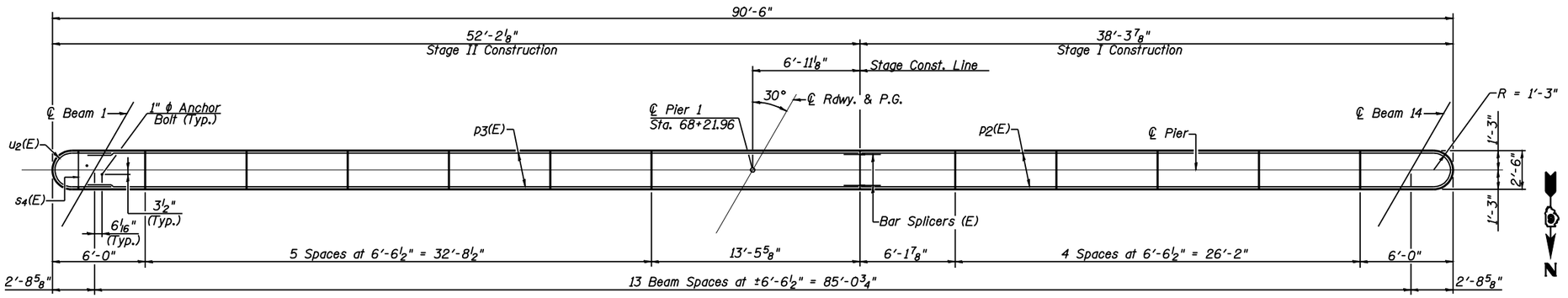


TOP PLAN

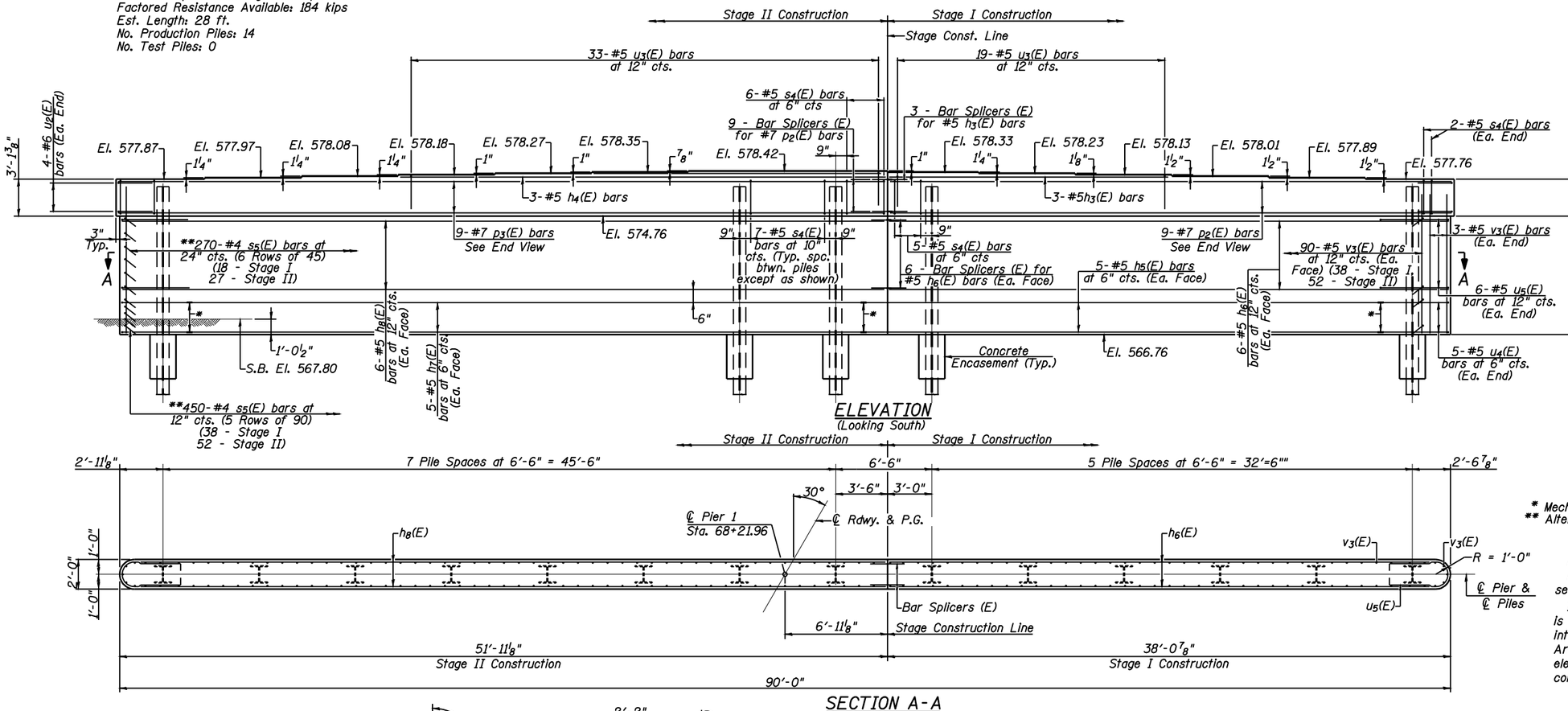
PILE DATA

Type: Steel HP 10x42 with Pile Shoes
Nominal Required Bearing: 335 kips
Factored Resistance Available: 184 kips
Est. Length: 28 ft.
No. Production Piles: 14
No. Test Piles: 0

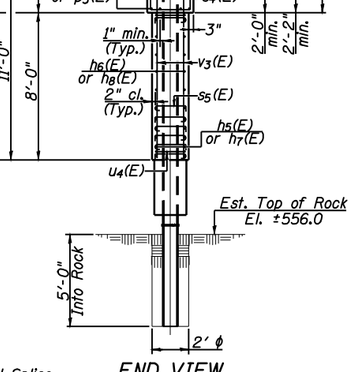
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h_3(E)	3	#5	18'-11"	——
h_4(E)	3	#5	32'-9"	——
h_5(E)	10	#5	34'-8"	——
h_6(E)	12	#5	36'-8"	——
h_7(E)	10	#5	45'-7"	——
h_8(E)	12	#5	50'-9"	——
p_2(E)	9	#7	36'-8"	——
p_3(E)	9	#7	50'-9"	——
s_4(E)	99	#5	10'-7"	□
s_5(E)	720	#4	2'-9"	⌐
u_2(E)	8	#6	9'-3"	⊔
u_3(E)	52	#5	6'-8"	⊔
u_4(E)	10	#5	10'-2"	⊔
u_5(E)	12	#5	11'-10"	⊔
v_3(E)	186	#5	10'-2"	——

Structure Excavation	Cu. Yd.	68
Concrete Structures	Cu. Yd.	81.3
Reinforcement Bars, Epoxy Coated	Pound	8820
Furnishing Steel Piles, HP 10x42	Foot	392
Setting and Driving Piles in Rock	Each	14
Underwater Structure Excavation Protection - Location 1	Each	1
Pile Shoes	Each	14
Concrete Encasement	Cu. Yd.	4.9



ELEVATION
(Looking South)



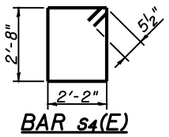
END VIEW

SECTION A-A

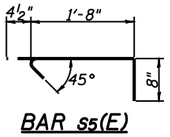
* Mechanical Splice
** Alternate Each End

For details of Bar Splicers, see sheet 26 of 30.
For details of piles and Concrete Encasement, see sheet 25 of 30.

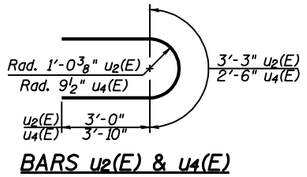
If a portion of the pier wall or concrete encasement is under water, reinforcement may be placed underwater into forms. Concrete shall be tremied according to Article 503.08 of the Standard Specifications to an elevation of 1'-0" above the water line at the time of construction.



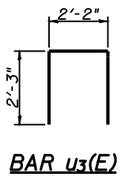
BAR s_4(E)



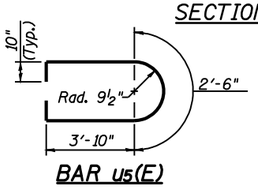
BAR s_5(E)



BARS u_2(E) & u_4(E)



BAR u_3(E)



BAR u_5(E)

PIER 1
S.N. 084-0521

Allen Henderson & Associates, Inc.
Civil and Structural Engineers Springfield, IL.
62703 Phone: (217)544-8033 IL. Design Firm
No. 184-001907

SHEET NO. 23
30 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	H(RS-10,B-2)	SANGAMON	84	67
		CONTRACT NO. 72A73		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		