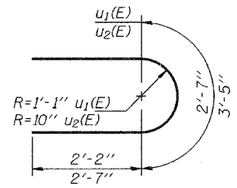
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

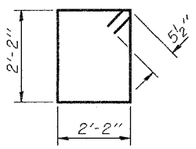
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 314	108BR-1	MADISON	123	46
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 18
29 SHEETS

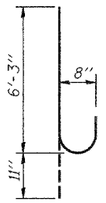
Contract #76454



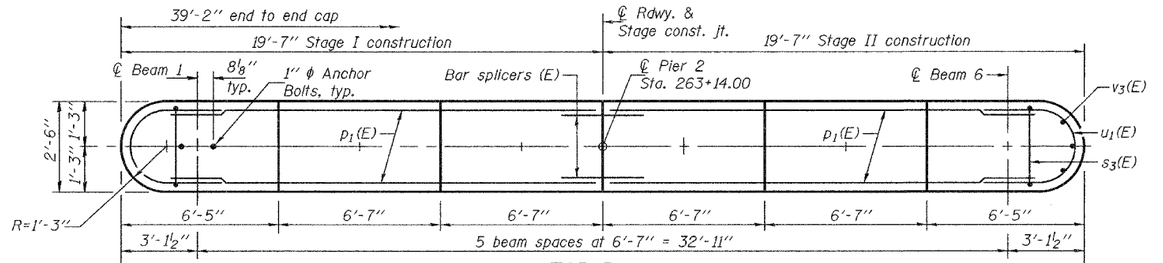
BARS $u_1(E)$ & $u_2(E)$



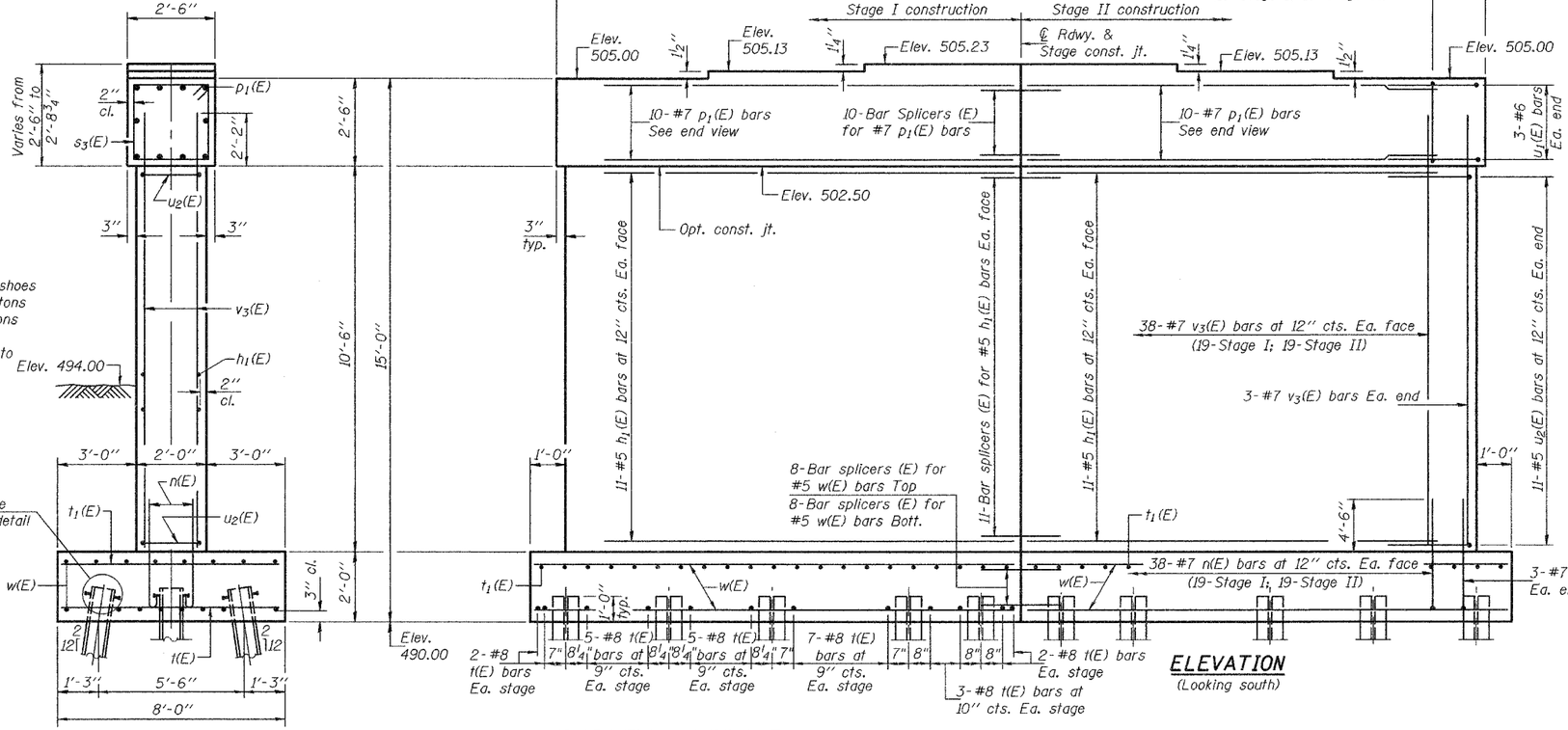
BAR $s_3(E)$



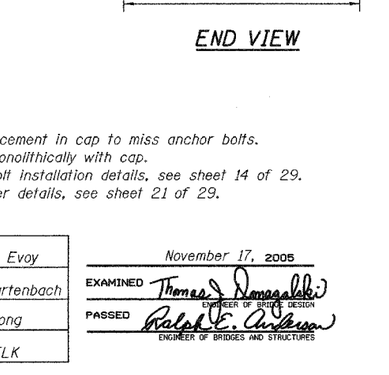
BAR n(E)



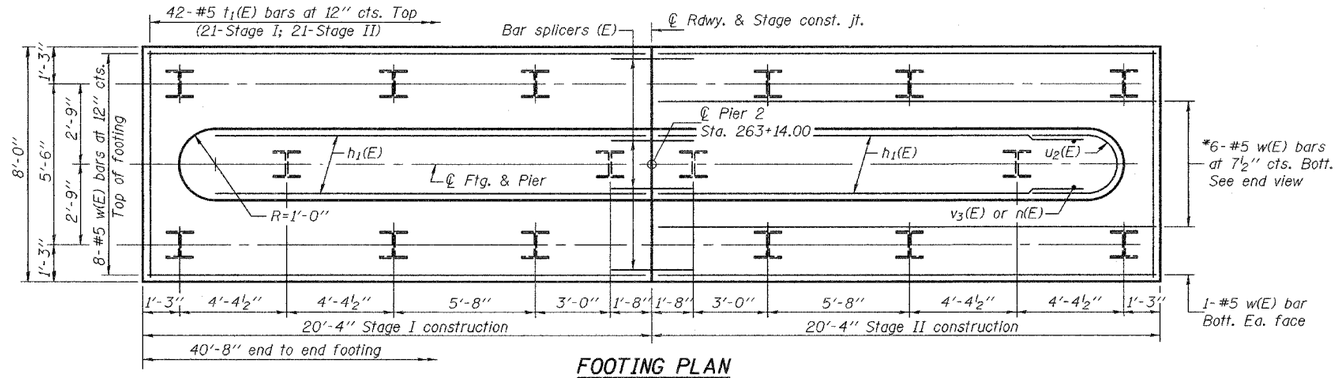
TOP PLAN



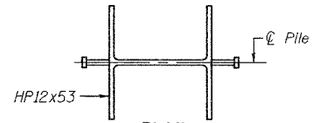
ELEVATION
(Looking south)



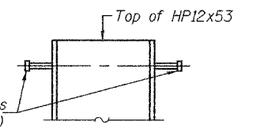
END VIEW



FOOTING PLAN



PLAN



ELEVATION

PILE STUDS DETAIL

Provide ¾" ϕ granular or solid flux filled headed studs automatically end welded to piling. Cost shall be included with Furnishing Steel Piles, HP12x53.

PILE DATA

Type: Steel HP12x53 w/metal shoes
Nominal Required Bearing: 375 tons
Nominal Design Capacity: 240 tons
Est. Length: 84 feet
One Test Pile Required (Driven to 419 tons bearing (Refusal))

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
$h_1(E)$	44	#5	18'-2"	——
n(E)	82	#7	7'-2"	⊃
$p_1(E)$	20	#7	18'-2"	——
$s_3(E)$	38	#5	9'-7"	□
t(E)	48	#8	7'-8"	——
$t_1(E)$	42	#5	7'-8"	——
$u_1(E)$	6	#6	8'-7"	⊃⊃
$u_2(E)$	22	#5	6'-11"	⊃⊃
$v_3(E)$	82	#7	12'-6"	——
w(E)	32	#5	20'-0"	——
Concrete Structures			Cu. Yd.	63.2
Reinforcement Bars, Epoxy Coated			Pound	7470
Structure Excavation			Cu. Yd.	79.4
Furnishing Steel Piles HP12x53			Foot	1260
Driving Steel Piles			Foot	1260
Test Pile Steel HP12x53			Each	1
Metal Shoes			Each	15

Reinforcement bars designated (E) shall be epoxy coated.

*In piles along ℄ of pier, field drill ⅞" ϕ hole in pile web for #5 w(E) bars. Cost included with Furnishing Steel Piles HP12x53.

Notes: Space reinforcement in cap to miss anchor bolts.
Pour steps monolithically with cap.
For anchor bolt installation details, see sheet 14 of 29.
For bar splicer details, see sheet 21 of 29.

DESIGNED	Curt M. Evoy
CHECKED	Tom L. Kurtenbach
DRAWN	h.t. duong
CHECKED	CME/TLK

November 17, 2005
EXAMINED Thomas J. Domagalski
ENGINEER OF BRIDGE DESIGN
PASSED Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

PIER 2
F.A.P. RTE. 314 - SEC. 108BR-1
MADISON COUNTY
STATION 263+51
STRUCTURE NO. 060-0334

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