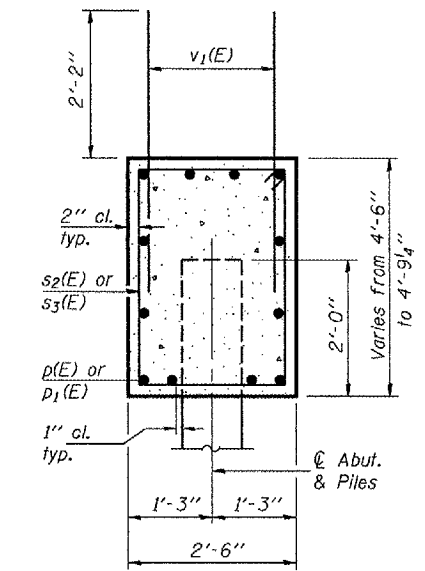
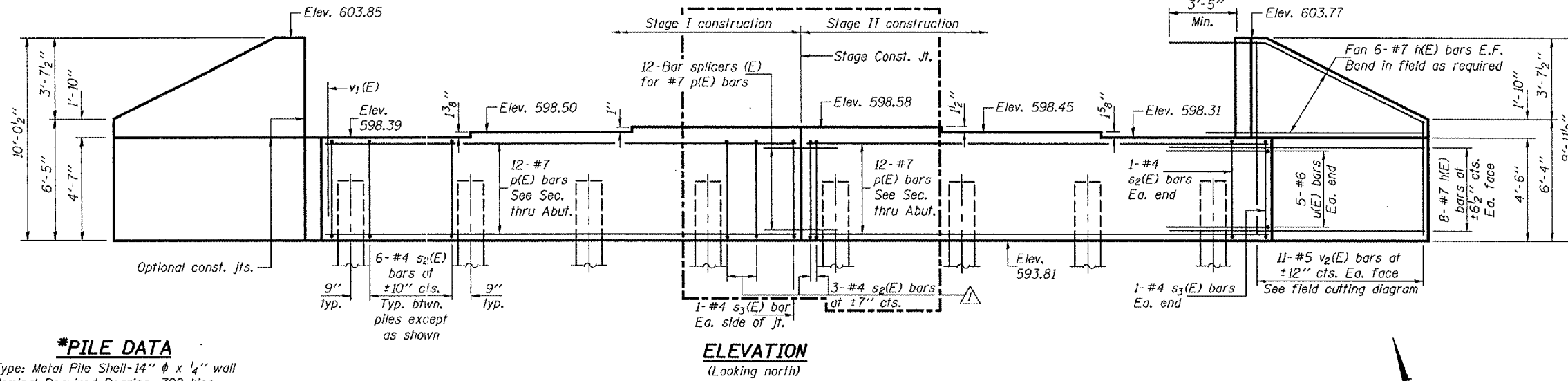


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEETS	PAGE	SHEET NO. 13
FAP 662	V,TJB-2	MACOUPIN	08	44	20 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			

Contract #72993

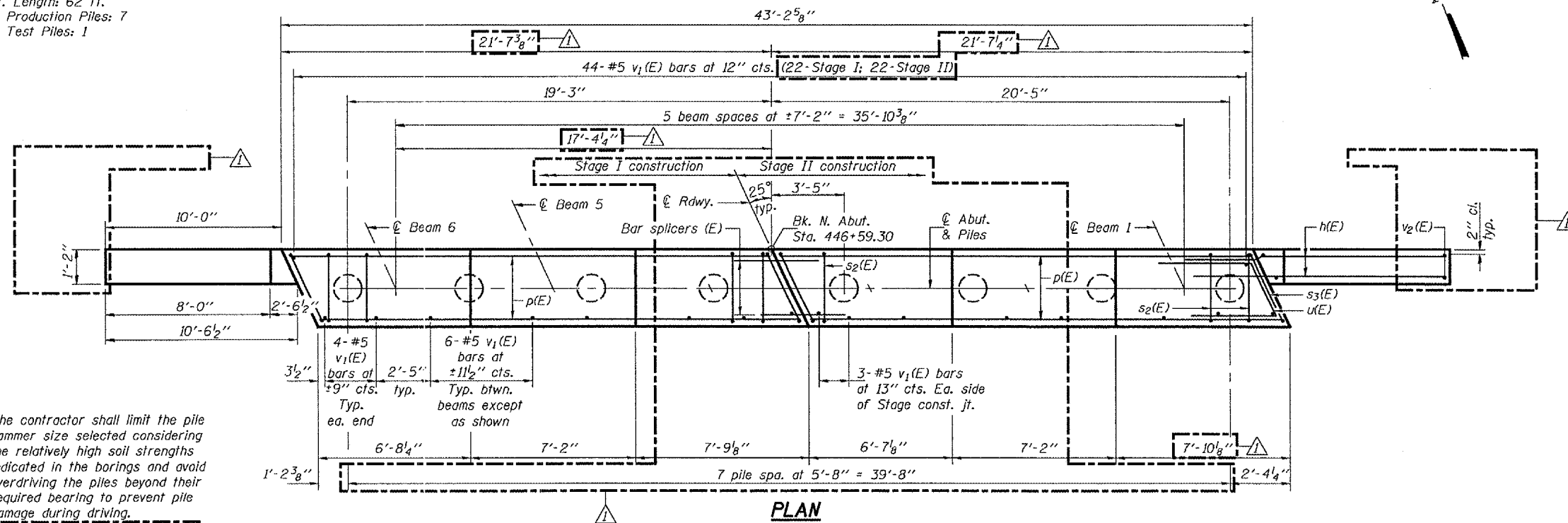
Notes: Pour steps monolithically with cap.
For details of bar splicers, see sheet 17 of 20.
For details of piles, see sheet 16 of 20.



***PILE DATA**

Type: Metal Pile Shell-14" ϕ x 1/4" wall
Nominal Required Bearing: 398 kips
Factored Resistance Available: 199 kips
Est. Length: 62 ft.
No. Production Piles: 7
No. Test Piles: 1

ELEVATION
(Looking north)

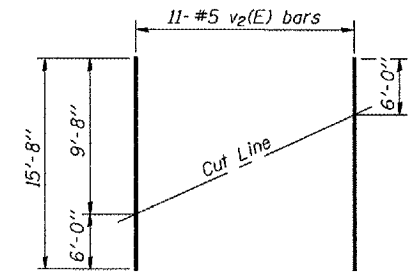
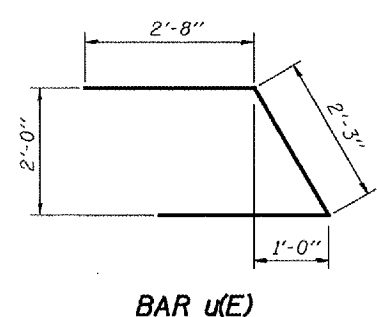
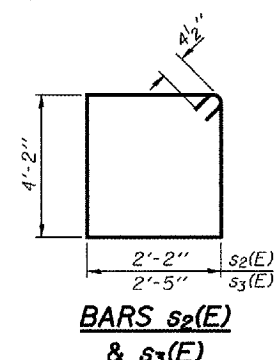


BILL OF MATERIAL

Bar	No.	Size	Length	Shape	
h(E)	28	#7	14'-4"	—	
p(E)	24	#7	21'-3"	—	
s2(E)	42	#4	13'-5"	□	
s3(E)	4	#4	13'-11"	□	
u(E)	10	#6	7'-7"	△	
v1(E)	82	#5	4'-4"	—	
v2(E)	22	#5	15'-8"	—	
Concrete Structures				Cu. Yd.	26.2
Reinforcement Bars, Epoxy Coated				Pound	3120
Structure Excavation				Cu. Yd.	58.5
Furnishing Metal Shell Piles 14"				Foot	434
Driving Piles				Foot	434
Test Pile Metal Shells				Each	1

*The contractor shall limit the pile hammer size selected considering the relatively high soil strengths indicated in the borings and avoid overdriving the piles beyond their required bearing to prevent pile damage during driving.

PLAN



FIELD CUTTING DIAGRAM
Order v2(E) full length. Cut as shown and use remainder of bars in opposite face.

DESIGNED	DPN
CHECKED	AJB
DRAWN	h.t. duong
CHECKED	FT/AJB/DPN

EXAMINED *Thomas D. Donagallo*
ENGINEER OF BRIDGE DESIGN
PASSED *Ronald E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES

NORTH ABUTMENT
F.A.P. RT. 662 - SECTION (V,T)B-2
MACOUPIN COUNTY
STATION 447+03.80
STRUCTURE NO. 059-0504