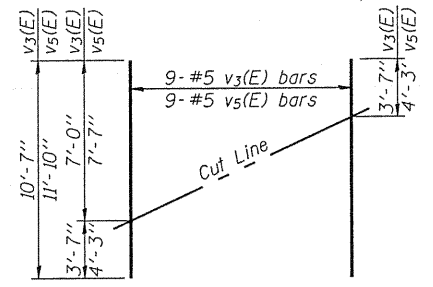
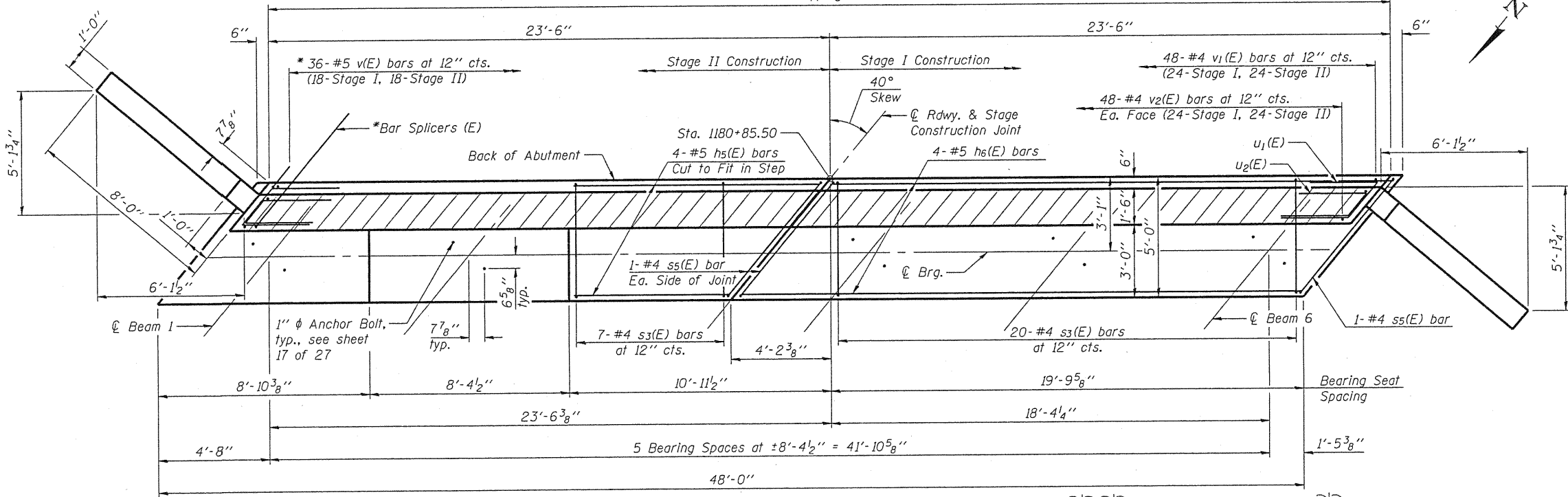
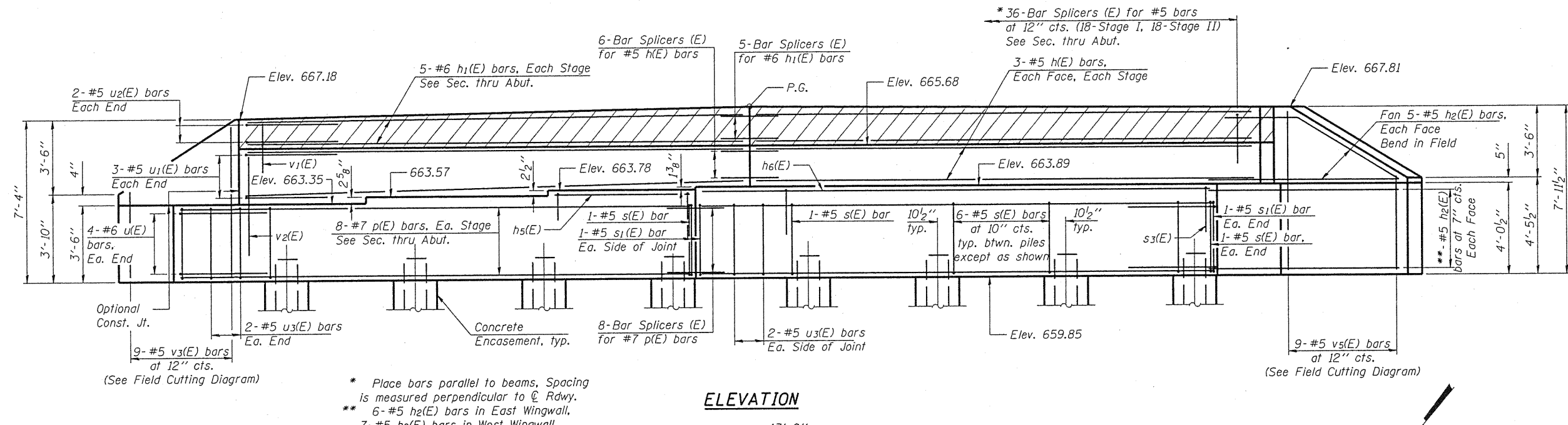


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



**SOUTH ABUTMENT
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h(E)	12	#5	23'-1"	—
h ₁ (E)	10	#6	23'-1"	—
h ₂ (E)	46	#5	10'-2"	—
h ₃ (E)	4	#5	10'-7"	—
h ₄ (E)	4	#5	23'-1"	—
p(E)	16	#7	23'-6"	—
s(E)	40	#5	16'-7"	□
s ₁ (E)	4	#5	19'-5"	□
s ₃ (E)	27	#4	8'-2"	□
s ₅ (E)	3	#4	9'-7"	□
u(E)	8	#6	12'-7"	—
u ₁ (E)	6	#5	7'-10"	—
u ₂ (E)	4	#5	7'-2"	—
u ₃ (E)	8	#5	12'-6"	—
v(E)	36	#5	3'-11"	—
v ₁ (E)	48	#4	3'-2"	—
v ₂ (E)	96	#4	4'-10"	—
v ₃ (E)	9	#5	10'-7"	—
v ₅ (E)	9	#5	11'-10"	—
Structure Excavation		Cu. Yd.	151	
Concrete Structures		Cu. Yd.	44.8	
Reinforcement Bars, Epoxy Coated		Pound	4080	
Furnishing Steel Piles HP12x53		Foot	266	
Driving Piles		Foot	266	
Test Pile Steel HP12x53		Each	1	
Pile Shoes		Each	8	
Concrete Encasement		Cu. Yd.	2.8	
Concrete Sealer		Sq. Ft.	672	

For details of Bar Splicers, see sheet 25 of 27.
 For details of piles and Concrete Encasement, see sheet 24 of 27.

MAURER & STUTZ, INC.
ENGINEERS SURVEYORS

DESIGNED - BAS
CHECKED - KEF
DRAWN - SGM
CHECKED - BAS

PILE DATA

Type: Steel-HP12x53 with pile shoes
 Nominal Required Bearing: 419 kips
 Factored Resistance Available: 230 kips
 Est. Length: 38 feet
 No. Production Piles: 7
 No. Test Piles: 1

**SOUTH ABUTMENT
STRUCTURE NO. 094-0051**

SHEET NO. 20 27 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	310	(28B)BR-1	WARREN	71	44
CONTRACT NO. 68661					
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					