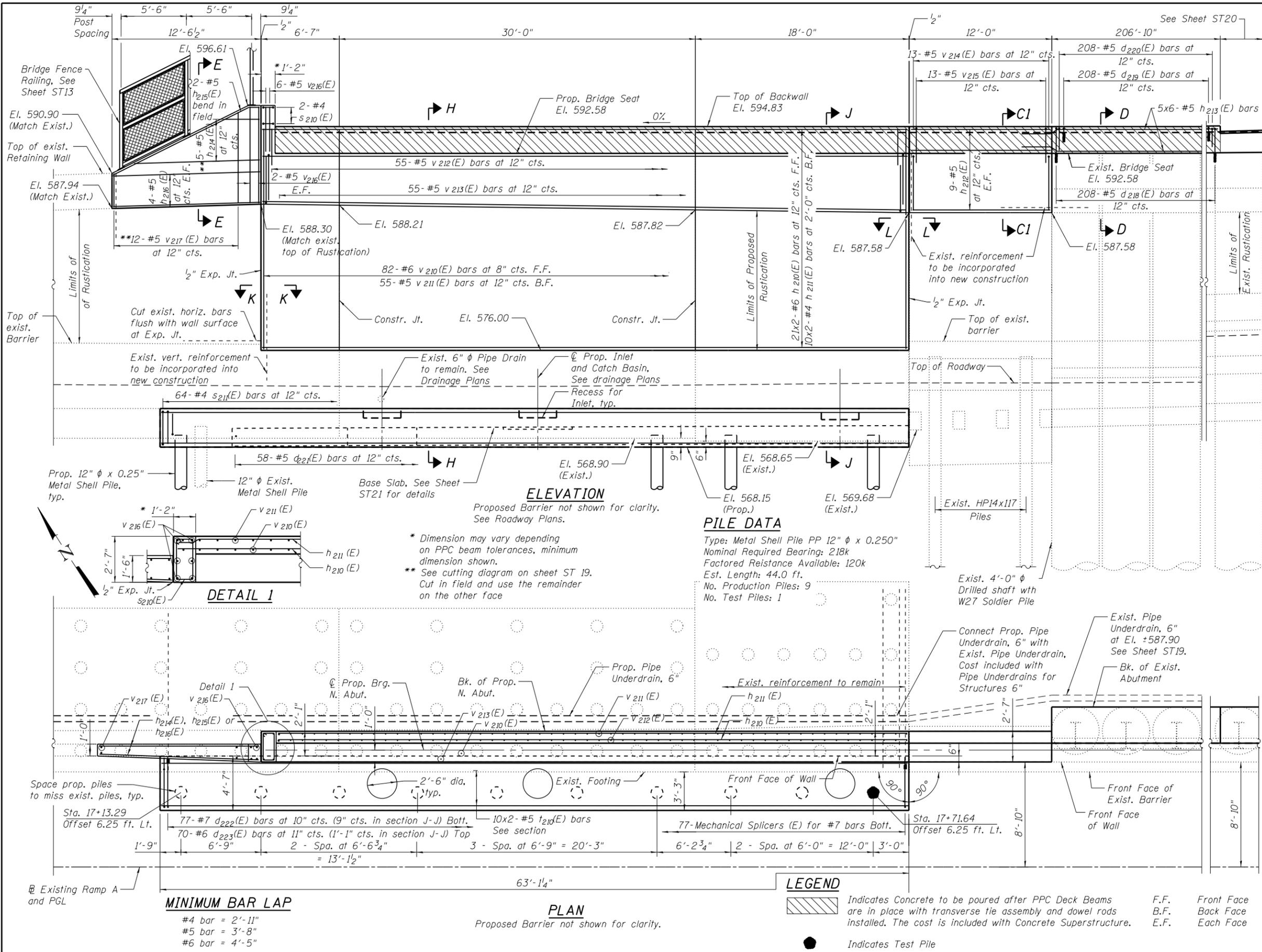


BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d 218(E)	208	#5	2'-9"	—
d 219(E)	208	#5	3'-9"	—
d 220(E)	208	#5	4'-3"	—
d 221(E)	58	#6	7'-0"	—
d 222(E)	77	#7	6'-2"	—
d 223(E)	70	#6	7'-2"	—
h 210(E)	42	#6	29'-4"	—
h 211(E)	20	#4	28'-7"	—
h 212(E)	18	#5	11'-8"	—
h 213(E)	30	#5	34'-5"	—
h 214(E)	5	#5	13'-6"	—
h 215(E)	2	#5	13'-6"	—
h 216(E)	8	#5	12'-3"	—
v 210(E)	82	#6	16'-3"	—
v 211(E)	55	#5	18'-6"	—
v 212(E)	55	#5	3'-1"	—
v 213(E)	55	#5	9'-11"	—
v 214(E)	13	#5	11'-9"	—
v 215(E)	13	#5	6'-2"	—
v 216(E)	10	#5	12'-6"	—
v 217(E)	12	#5	11'-8"	—
s 210(E)	2	#4	7'-3"	—
s 211(E)	64	#4	13'-5"	—
t 210(E)	20	#5	33'-3"	—
Structure Excavation		Cu. Yd.	129.2	
Concrete Structures		Cu. Yd.	118.4	
Concrete Superstructure		Cu. Yd.	21.9	
Form Liner Textured Surface		Sq. Ft.	652	
Reinforcement Bars, Epoxy Coated		Pound	14,350	
Furnishing Metal Shell Piles 12" x 0.250"		Foot	396	
Driving Piles		Foot	396	
Test Pile Metal Shells		Each	1	
Concrete Sealer		Sq. Ft.	1,040	
Geocomposite Wall Drain		Sq. Yd.	124	
Granular Backfill for Structures		Cu. Yd.	181.7	
Pipe Underdrains for Structures 6"		Foot	78	

Notes:
 Backfill shall be placed behind the abutment after the superstructure has been poured and falsework removed. See Article 502.10 of the Standard Specifications.
 Existing reinforcement shall be cleaned and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal operations shall be repaired or replaced using an approved bar splicer or anchorage system. Cost included with Concrete Removal.
 Concrete sealer shall be applied to all exposed surface areas of new concrete abutment.
 Cast backwall after beams have been erected. For details of piles see sheet ST26.
 See sheets ST16 and ST19 for sections and details of reinforcement.
 Drill and epoxy grout bars into existing structure according to Section 584 of the Standard Specifications. Drilling and Grouting of bars is included with Concrete Structures.
 All drainage system components shall extend 2'-0" from the back of abutment except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. See Article 601.05 of the Standard Specifications and Highway Standard 601101.



PILE DATA

Type: Metal Shell Pile PP 12" ϕ x 0.250"
 Nominal Required Bearing: 218k
 Factored Resistance Available: 120k
 Est. Length: 44.0 ft.
 No. Production Piles: 9
 No. Test Piles: 1

ELEVATION

Proposed Barrier not shown for clarity. See Roadway Plans.

* Dimension may vary depending on PPC beam tolerances, minimum dimension shown.
 ** See cutting diagram on sheet ST 19. Cut in field and use the remainder on the other face

DETAIL 1

1/2" Exp. Jt. s210(E)

LEGEND

Indicates Concrete to be poured after PPC Deck Beams are in place with transverse tie assembly and dowel rods installed. The cost is included with Concrete Superstructure.
 F.F. Front Face
 B.F. Back Face
 E.F. Each Face
 Indicates Test Pile

MINIMUM BAR LAP

#4 bar = 2'-11"
 #5 bar = 3'-8"
 #6 bar = 4'-5"

PLAN

Proposed Barrier not shown for clarity.

USER NAME =	DESIGNED - EKM	REVISED
PLOT SCALE =	CHECKED - LDB	REVISED
PLOT DATE =	DRAWN - PRH	REVISED
	CHECKED - EKM	REVISED

F.A.I. RT.:	SECTION:	COUNTY:	TOTAL SHEETS:	SHEET NO.:
90/94	0303-474HB-R	COOK	368	297
CONTRACT NO. 60F63			ILLINOIS FED. AID PROJECT	