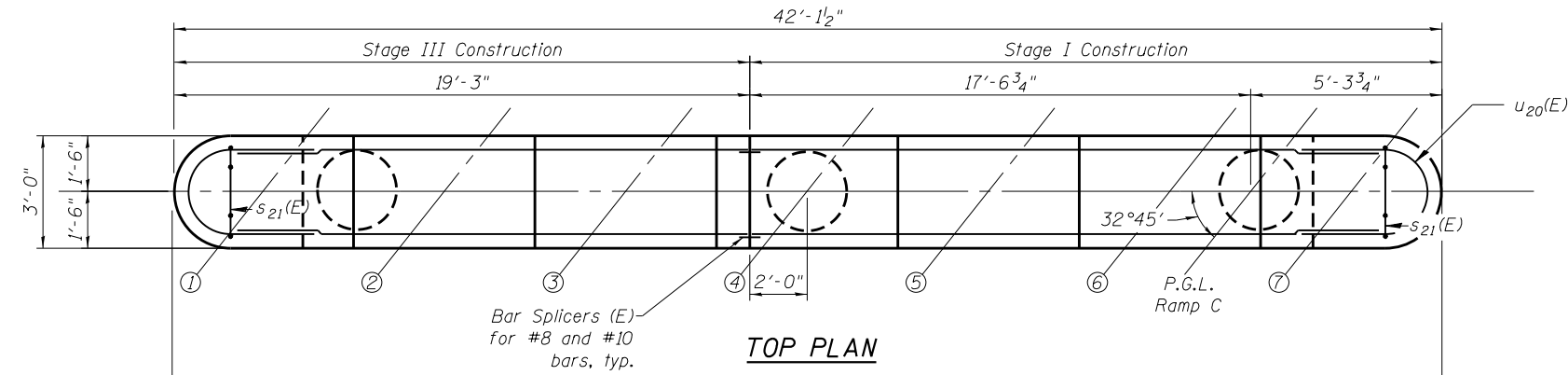
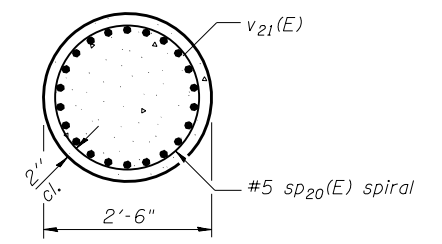


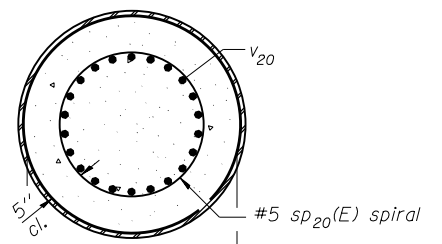
SECTION D-D



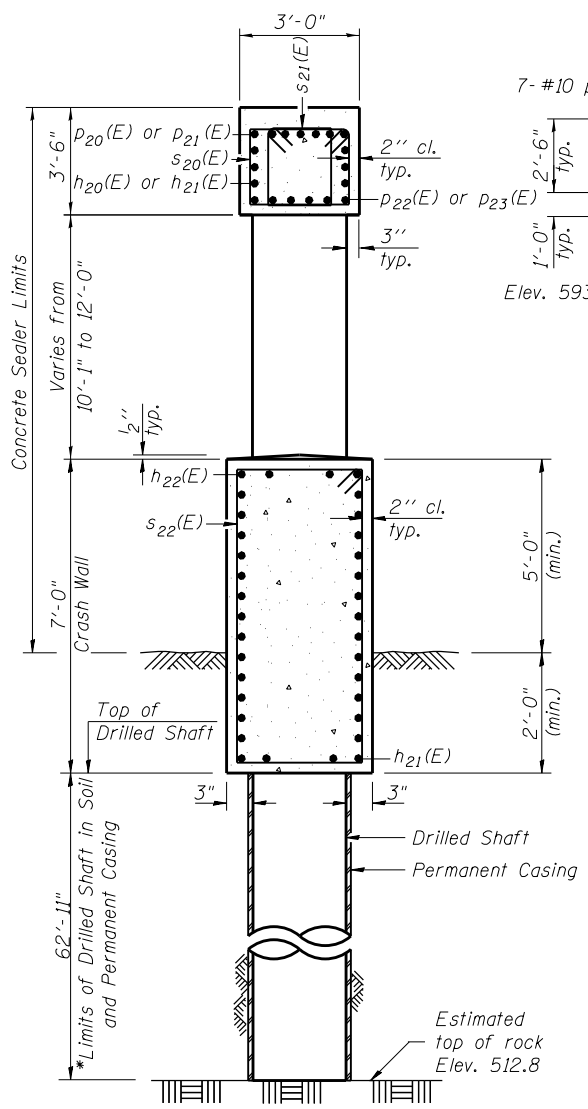
TOP PLAN



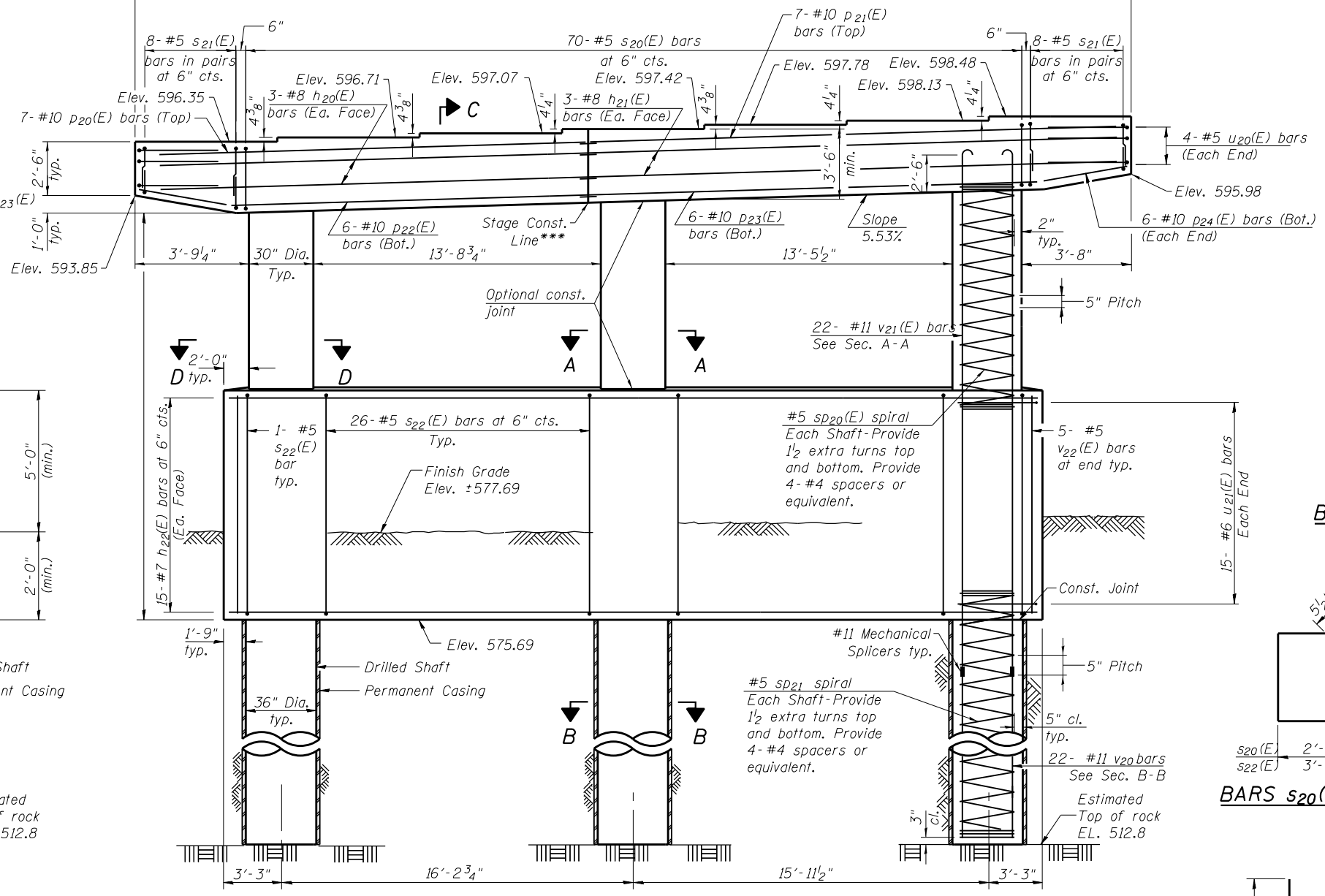
SECTION A-A



SECTION B-B



SECTION C-C



ELEVATION
(Looking West)

BAR v21(E)

BARS s20(E) & s22(E)

BAR s21(E)

BARS u20(E) and u21(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h20(E)	6	#8	18'-9"	—
h21(E)	6	#8	22'-4"	—
h22(E)	30	#7	38'-2"	—
p20(E)	7	#10	18'-9"	—
p21(E)	7	#10	22'-4"	—
p22(E)	6	#10	15'-3"	—
p23(E)	6	#10	18'-10"	—
p24(E)	12	#10	2'-9"	—
s20(E)	70	#5	12'-7"	□
s21(E)	32	#5	7'-0"	U
s22(E)	54	#5	20'-7"	□
sp20(E)	3	#5	13'-3"	W
sp21	3	#5	63'-6"	W
u20(E)	8	#5	11'-0"	U
u21(E)	30	#6	11'-10"	U
v20	66	#11	44'-0"	—
v21(E)	66	#11	41'-3"	C
v22(E)	10	#5	6'-8"	—
Concrete Sealer	Sq. Ft.		433	
Concrete Structures	Cu. Yd.		58.6	
Reinforcement Bars	Pound		18,680	
Reinforcement Bars, Epoxy Coated	Pound		23,430	
Drilled Shaft in Soil	Cu. Yd.		49.4	
Permanent Casing	Foot		189	

** Length is height of spiral.

Notes:
 Cast steps monolithically with cap.
 Space cap reinforcement to miss anchor bolts.
 Minimum lap for spirals = 2'-6"
 Concrete Sealer applied to roadside face of Pier only.
 For Anchor Bolt and Bearing Plate locations, see sheets S29 thru S49.
 See sheet S43 of S49 for Bar Splicer Details.

*** South portion of pier cap only to be completed following existing structure removal

MINIMUM BAR LAP

- (E) bars
- #5 bar = 3'-3"
- #6 bar = 3'-10"
- #8 bar = 6'-9"
- #10 bar = 10'-10"

* The quantities and reinforcement detailing are based on the top of shaft and the estimated top of rock elevations shown and may change based on the actual top of rock encountered at each shaft and the final top of shaft elevation. The casing thickness shall be 1/2", typ. See Article S16.06(d) of the Standard Specifications. Pay limits for the Permanent Casing are based on the minimum length shown.