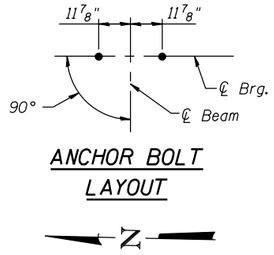
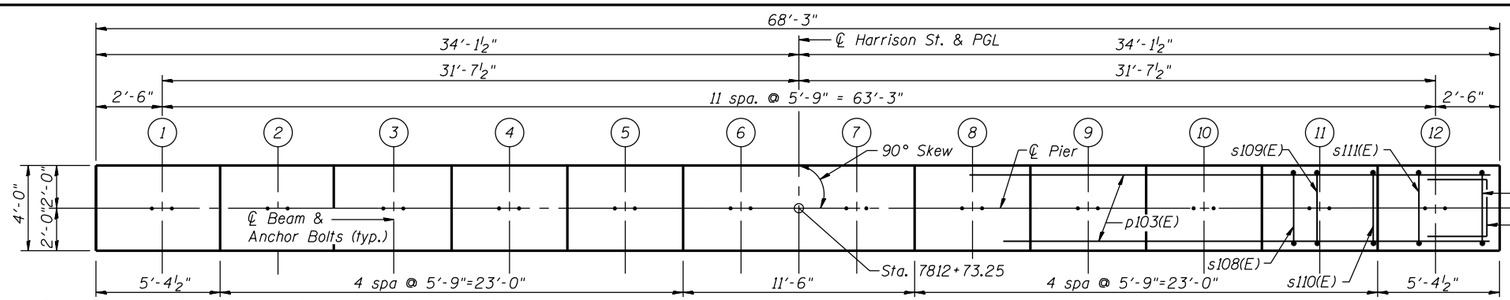
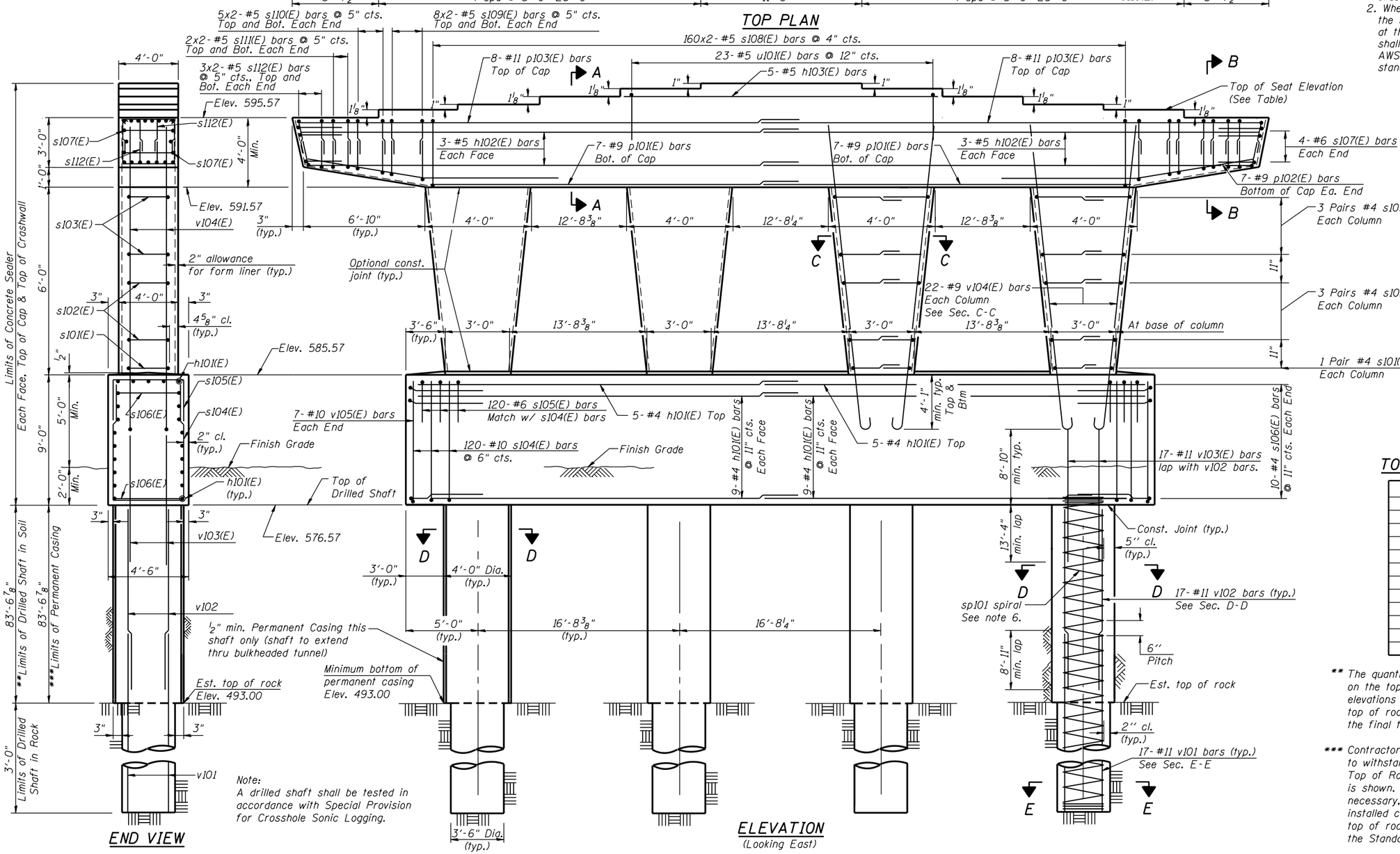


ANCHOR BOLT LAYOUT



NOTES:

1. Space reinforcement in cap to miss anchor bolts.
2. Pour steps monolithically with cap.
3. For section cuts see next sheet.
4. For Anchor Bolt Details see sheet S-30.
5. Bars noted thus, 3x2-#5 indicates 3 lines of bars with 2 lengths of bars per line.
6. #5 sp101 spiral, each drilled shaft
   1. Provide 1½ extra turns, shop welded together per AWS D1.4 top and bottom. Extend spiral 2" into crashwall. Provide 4-#4 spacers or equivalent.
   2. When splicing spiral reinforcement is necessary, the spiral shall be provided with 1½ extra turns at the ends to be spliced. These additional turns shall either be welded together according to AWS D1.4 or shall both terminate with a 135° standard hook.



END VIEW

ELEVATION
(Looking East)

Note:
A drilled shaft shall be tested in accordance with Special Provision for Crosshole Sonic Logging.

TOP OF SEAT ELEVATION

Beam No.	Seat elevation
1	595.57
2	595.66
3	595.75
4	595.84
5	595.93
6	596.02
7	596.02
8	595.93
9	595.84
10	595.75
11	595.66
12	595.57

** 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 elevations encountered at each shaft and the final top of shaft elevation.

*** Contractor may need to increase the casing thickness to withstand the installation process. The Estimated Top of Rock/Bottom of Permanent Casing Elevation is shown. The limits of casing shall be adjusted as necessary, and as approved, such that the actual installed casing length extends to the as-encountered top of rock at each shaft. See Article 516.06(d) of the Standard Specifications.

AECOM

USER NAME = dabezlcd	DESIGNED - EJO	REVISED	
	CHECKED - BMR	REVISED	
PLOT SCALE = N.T.S.	DRAWN - BRD	REVISED	
PLOT DATE = 2/19/2014	CHECKED - DD	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER PLAN AND ELEVATION
STRUCTURE NO. 016-1711
SHEET NO. S-41 OF S-47 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-036R	COOK	256	133
		CONTRACT NO. 60W71		
	ILLINOIS	FED. AID PROJECT -NUMBER-		

0161711-60W71-S41-Pier