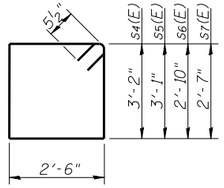
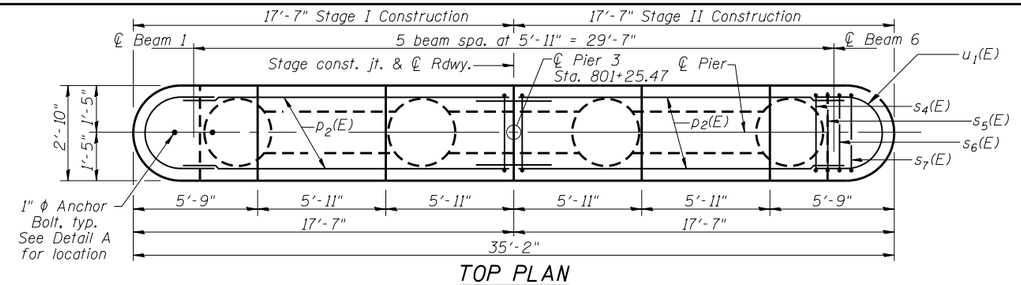
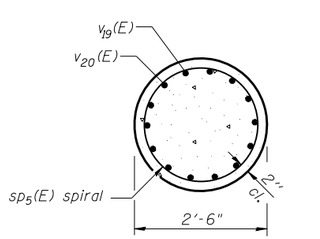


BAR $s_4(E)$, $s_5(E)$, $s_6(E)$ & $s_7(E)$

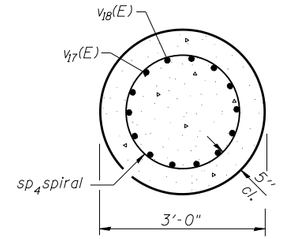
Note: When splicing of spiral reinforcement is necessary, the spirals shall be provided with $1\frac{1}{2}$ extra turns at the ends to be spliced. These additional turns shall either be welded together according to AWS D1.4 or shall both terminate with a 135° standard hook.



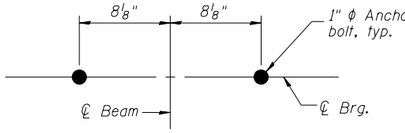
TOP PLAN



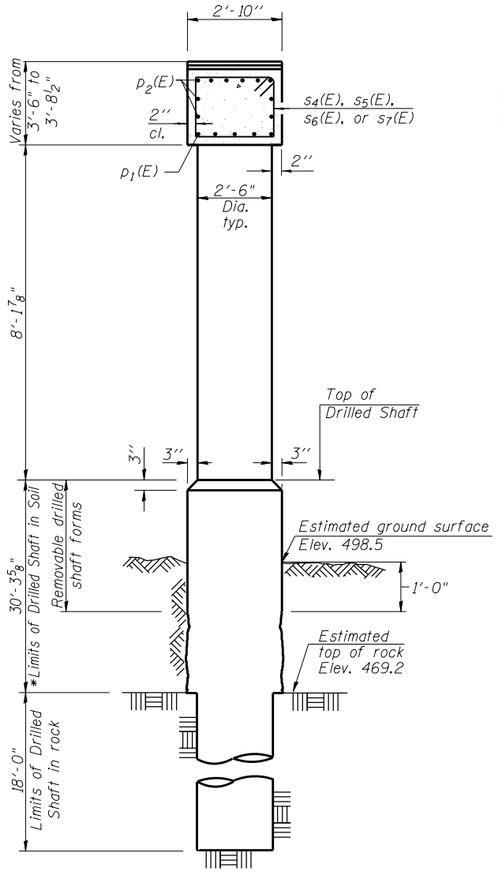
SECTION A-A



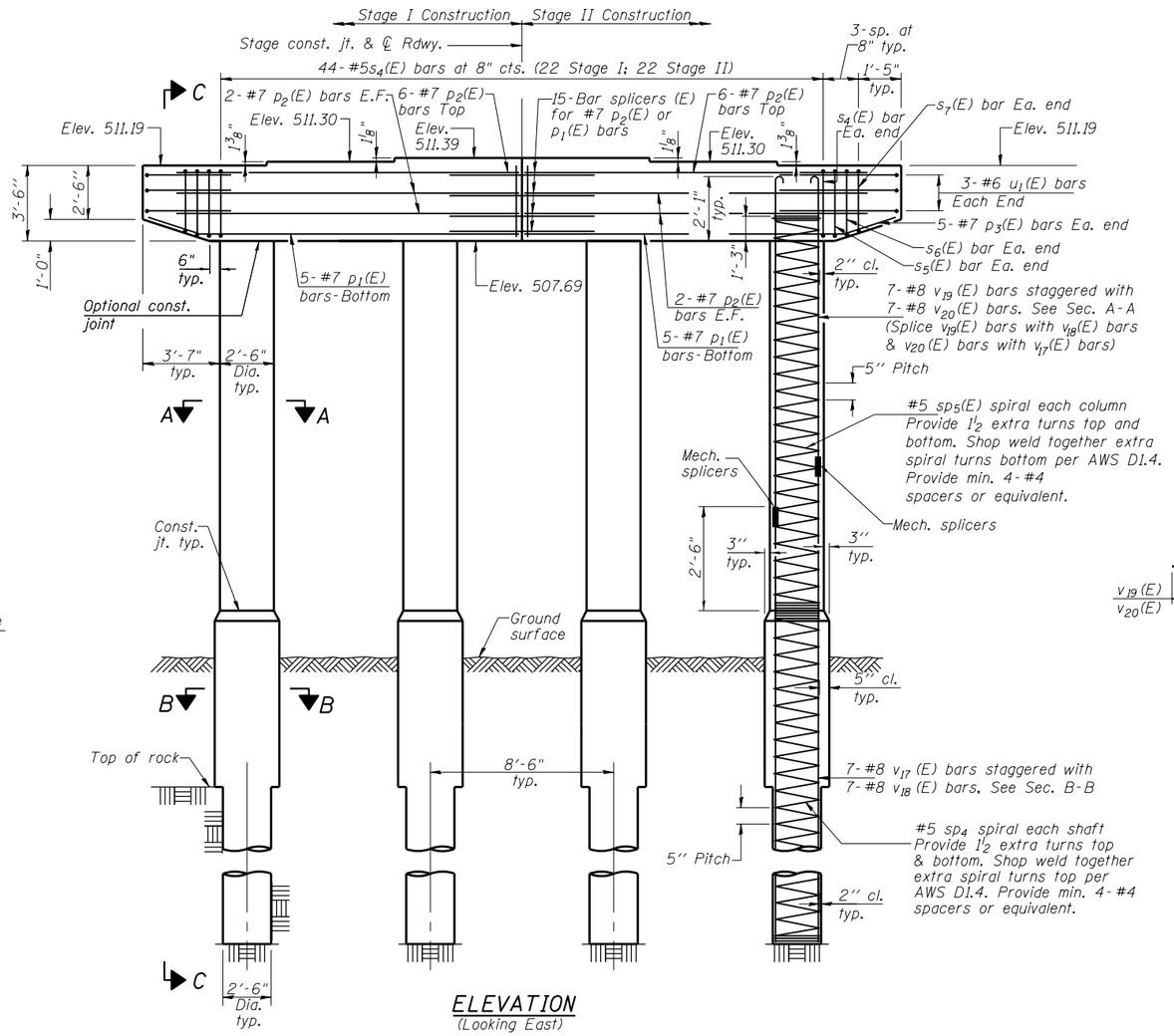
SECTION B-B



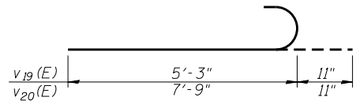
DETAIL A



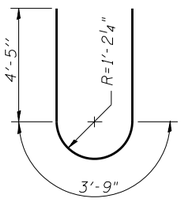
SECTION C-C



ELEVATION
(Looking East)



BAR $v_{19}(E)$ & $v_{20}(E)$



BAR $u_1(E)$

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
$p_1(E)$	10	#7	14'-4"	——
$p_2(E)$	20	#7	16'-0"	——
$p_3(E)$	10	#7	3'-1"	——
$s_4(E)$	44	#5	12'-3"	□
$s_5(E)$	2	#5	12'-1"	□
$s_6(E)$	2	#5	11'-7"	□
$s_7(E)$	2	#5	11'-1"	□
** sp_4	4	#5	48'-1"	∿∿
** $sp_5(E)$	4	#5	9'-5"	∿∿
$u_1(E)$	6	#6	12'-7"	⊃
$v_{17}(E)$	28	#8	50'-10"	——
$v_{18}(E)$	28	#8	53'-4"	——
$v_{19}(E)$	28	#8	6'-2"	⊃
$v_{20}(E)$	28	#8	8'-8"	⊃
Concrete Structures		Cu. Yd.	18.9	
Reinforcement Bars		Pound	3370	
Reinforcement Bars, Epoxy Coated		Pound	11,380	
Drilled Shaft in Soil		Cu. Yd.	31.7	
Drilled Shaft in Rock		Cu. Yd.	13.1	

Cast steps monolithically with cap.
Space cap reinforcement to miss anchor bolts.
Minimum lap for spirals = 3'-9"
** Length is height of spiral.

* If the prevailing water surface elevation during construction is consistently different than estimated on the plans, the contractor may propose an adjustment to the top of the drilled shaft elevation as part of their installation procedure. The top of all drilled shafts within a substructure unit shall be constructed to the same elevation and extend above the prevailing water surface. The quantities and reinforcement detailing are based on the top of shaft and the estimated elevations shown and may change based on the actual elevations encountered at each shaft and the final top of shaft elevation.

FILE NAME = 0720229-68697-025-Pier 3.dgn | USER NAME = | DESIGNED - BWP | REVISED -
CHECKED - CMV | REVISED -
PLOT SCALE = | DRAWN - BJV | REVISED -
PLOT DATE = 3/18/2014 | CHECKED - CMV | REVISED -

BFW BACON | FARMER | WORKMAN ENGINEERING & TESTING, INC.
403 NORTH COURT STREET MARION, ILLINOIS 62959 PHONE - 618.997.9190

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 3
STRUCTURE NO. 072-0229
SHEET NO. 25 OF 34 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1388	(Z-1D-BR-1)BR	PEORIA	89	67
		CONTRACT NO. 68697		
	ILLINOIS FED. AID PROJECT			