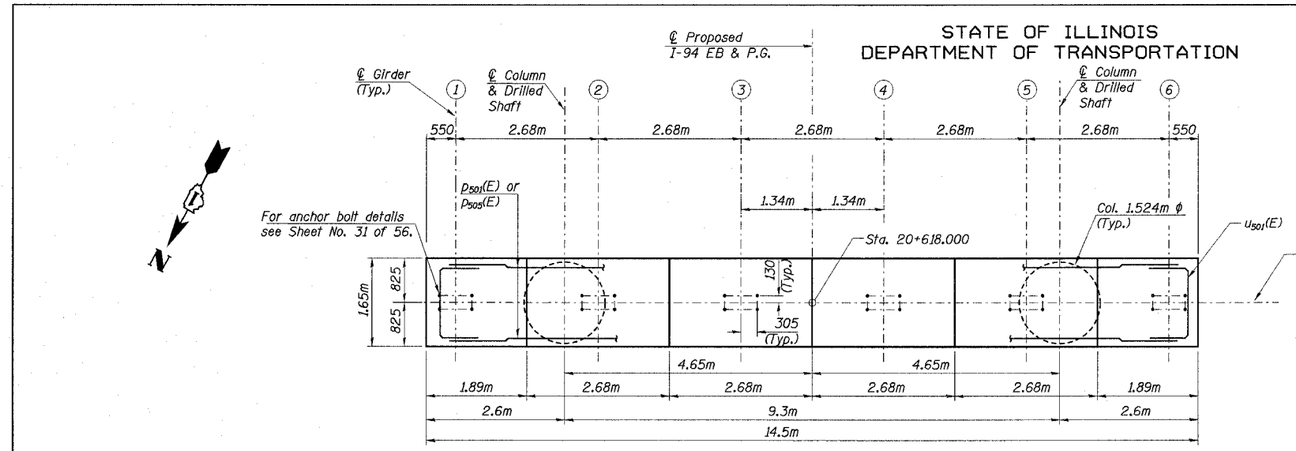
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

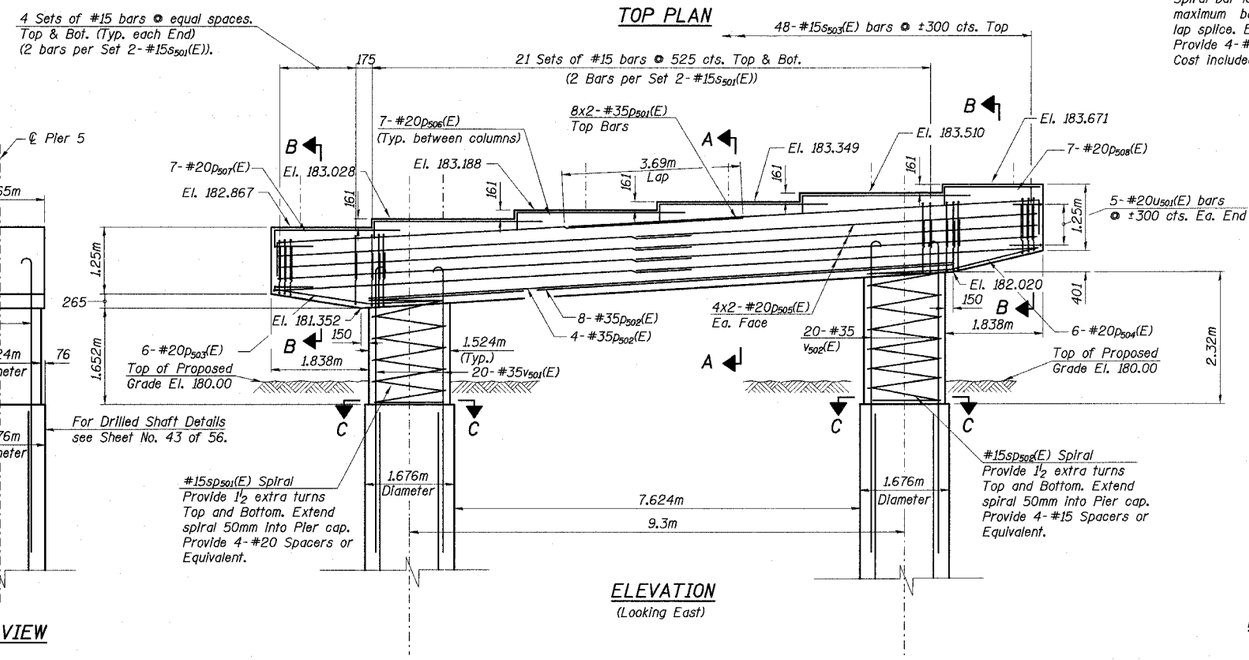
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. I. 80/94	•	COOK	870	652
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 42
56 SHEETS

(0203.1 & 0312-708WOR-3 CONTRACT NO. 62108

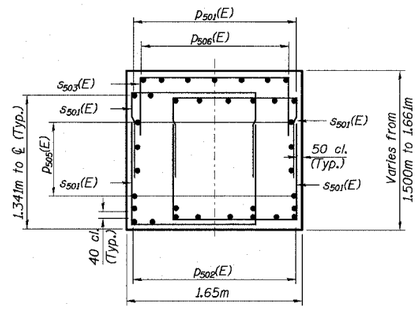


TOP PLAN

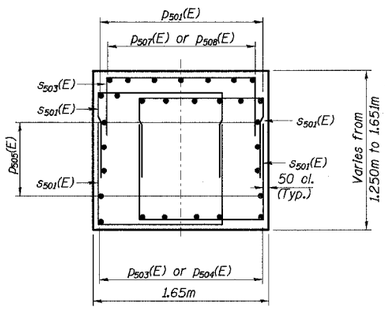


END VIEW

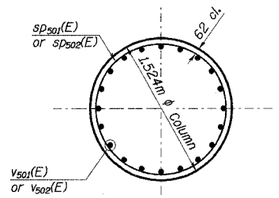
ELEVATION
(Looking East)



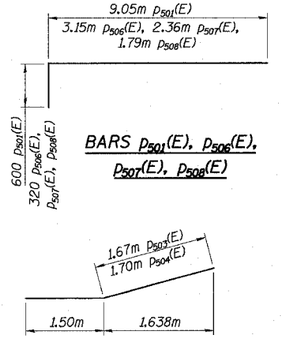
SECTION A-A



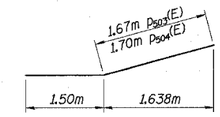
SECTION B-B



SECTION C-C

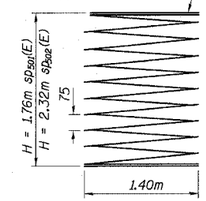


BARS $p_{501}(E)$, $p_{506}(E)$, $p_{507}(E)$, $p_{508}(E)$

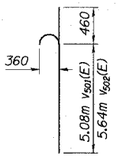


BARS $p_{503}(E)$ & $p_{504}(E)$

Provide 1½ extra turns at the top & bottom. Spiral bar length based upon using 18m maximum bar length with 770mm minimum lap splice. Extend sprial 50mm into footing. Provide 4-#15 spacers or equivalent. Cost included with reinforcement bars.



BARS $sp_{501}(E)$ & $sp_{502}(E)$

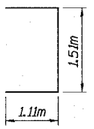


BARS $v_{501}(E)$ & $v_{502}(E)$

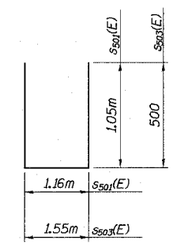
BILL OF MATERIAL

	Bar	No.	Size	Length	Shape
	$p_{501}(E)$	16	#35	9.65	
	$p_{502}(E)$	12	#35	11.02	
	$p_{503}(E)$	6	#20	3.17	
	$p_{504}(E)$	6	#20	3.20	
	$p_{505}(E)$	16	#20	7.76	
	$p_{506}(E)$	28	#20	3.47	
	$p_{507}(E)$	7	#20	2.68	
	$p_{508}(E)$	7	#20	2.11	
	$s_{501}(E)$	116	#15	3.26	
	$s_{503}(E)$	48	#15	2.55	
	$v_{501}(E)$	20	#35	5.54	
	$v_{502}(E)$	20	#35	6.10	
**	$sp_{501}(E)$	1	#15	1.76	
**	$sp_{502}(E)$	1	#15	2.32	
	$u_{501}(E)$	10	#20	3.73	
	Reinforcement Bars, Epoxy Coated			kg	6080
	Concrete Structures			m^3	45.1

Reinforcement Bars designated (E) shall be epoxy coated.
**Length is height of spiral.



BAR $u_{501}(E)$



BARS $s_{501}(E)$ & $s_{503}(E)$

NOTES

1. Space reinforcement in cap to miss anchor bolts.
2. Pour steps monolitically with the cap.
3. All dimensions are in millimeters, except as noted.
4. Bars indicated thus 9 x 2 - #35 etc. indicates 9 line of bars with 2 lengths per line.
5. For drilled shaft details and reinforcement, see Sheet No. 43 of 56.

MIN. BAR LAPS

#35 Top bars = 3.69m
#35 Others = 2.64m
#20 Top bars = 1.11m
#20 Others = 790
#15 Others = 640
#15 Spiral = 770

DESIGNED	TFS
CHECKED	HDA
DRAWN	ALR
CHECKED	OD

ILLINOIS DEPARTMENT OF TRANSPORTATION
I-94 EAST BOUND / IL 394 SOUTH BOUND

PIER 5

EB I-94 OVER THORN CREEK
F.A.I. 94 SECTION (0203.1 & 0312-708W) R-3
COOK COUNTY
STA. 20+509.000 STRUCTURE NO. 016-2807

DATE JUL 18, 2005
SCALE ---

HNTB

LK:klis
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