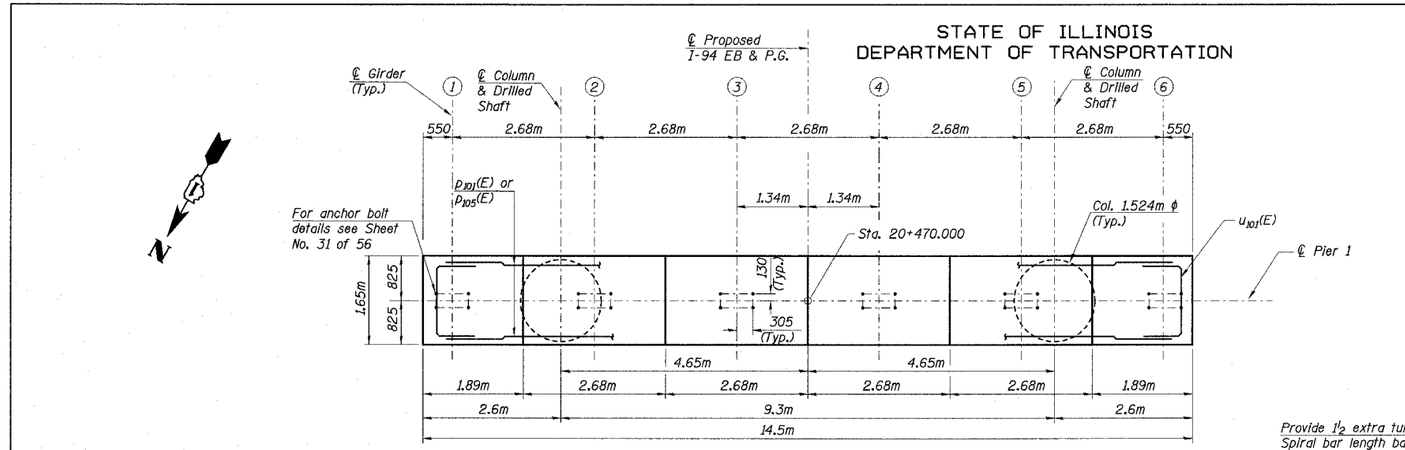
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

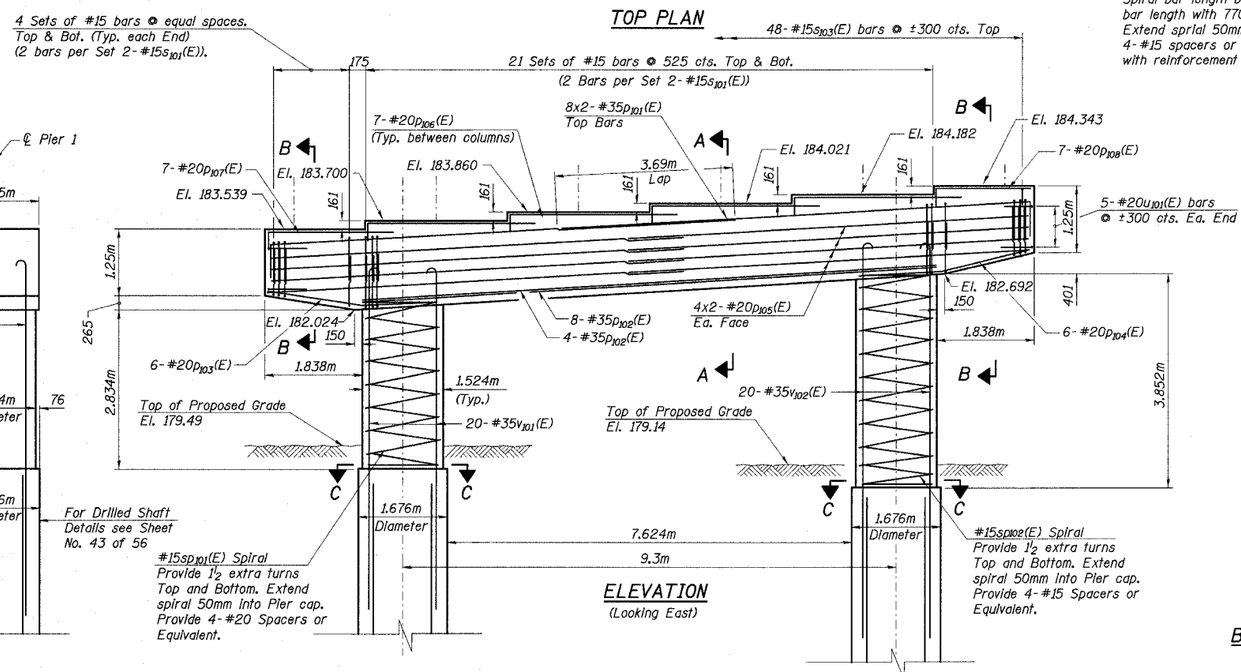
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F. A. I. 80/94	*	COOK	870	648
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 38
56 SHEETS

0203.1 & 0312-708W R-3 CONTRACT NO. 62108

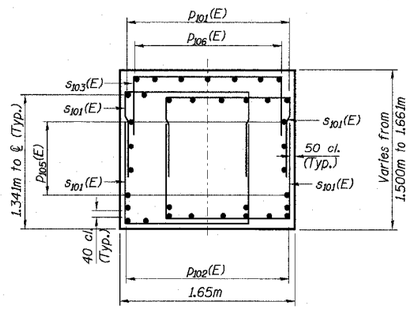


TOP PLAN

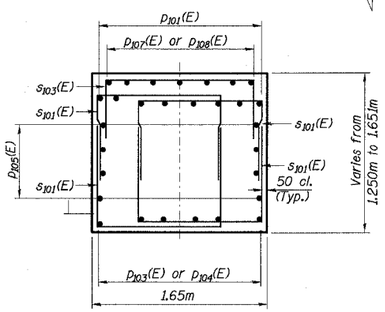


END VIEW

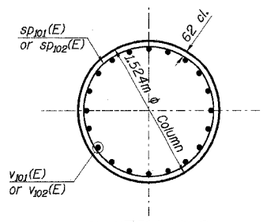
ELEVATION
(Looking East)



SECTION A-A



SECTION B-B

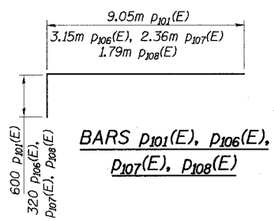


SECTION C-C

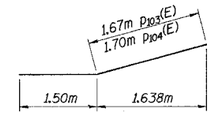
DESIGNED	TFS
CHECKED	HDA
DRAWN	ALR
CHECKED	OD

L:\kalis\a-104562\CADD\DB\SN_2807\vcds\CTR_I9_2807\xp=190214a_2807.dgn
16-AUG-2005 13:29

BARS p_{101}(E), p_{106}(E), p_{107}(E), p_{108}(E)

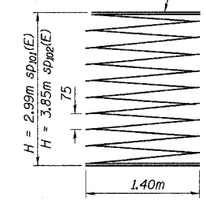


BARS p_{103}(E) & p_{104}(E)

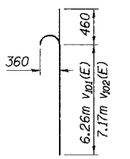


Provide 1½ extra turns at the top & bottom. Spiral bar length based upon using 18m maximum bar length with 770mm minimum lap splice. Extend sprial 50mm into pier cap. Provide 4-#15 spacers or equivalent. Cost included with reinforcement bars.

BARS sp_{101}(E) & sp_{102}(E)



BARS v_{101}(E) & v_{102}(E)

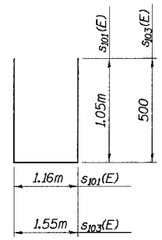


BILL OF MATERIAL

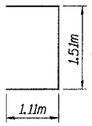
Bar	No.	Size	Length	Shape
p_{101}(E)	16	#35	9.65	
p_{102}(E)	12	#35	11.02	
p_{103}(E)	6	#20	3.17	
p_{104}(E)	6	#20	3.20	
p_{105}(E)	16	#20	7.76	
p_{106}(E)	28	#20	3.47	
p_{107}(E)	7	#20	2.68	
p_{108}(E)	7	#20	2.11	
s_{101}(E)	116	#15	3.26	
s_{103}(E)	48	#15	2.55	
v_{101}(E)	20	#35	6.72	
v_{102}(E)	20	#35	7.63	
** sp_{101}(E)	1	#15	2.99	
** sp_{102}(E)	1	#15	3.85	
u_{101}(E)	10	#20	3.73	
Reinforcement Bars, Epoxy Coated			kg	6770
Concrete Structures			m^3	50.1

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

BARS s_{101}(E) & s_{103}(E)



BAR u_{101}(E)



NOTES

1. Space reinforcement in cap to miss anchor bolts.
2. Pour steps monolithically 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

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

PIER 1

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