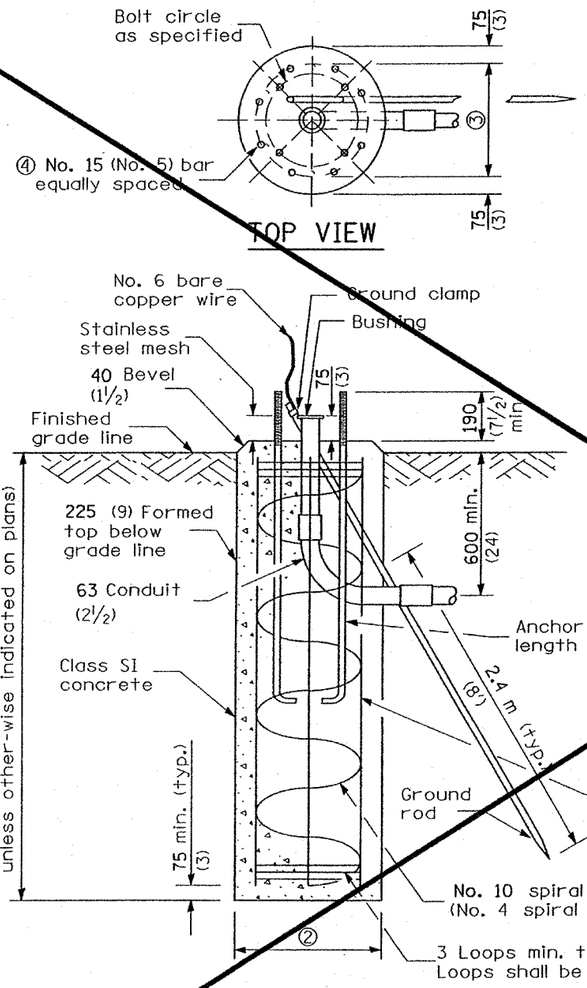
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	*	COOK	907	1425
STA. — — —	TO STA. — — —			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		
* (1516.1,1717 & 1818) R-S				62695



TYPE E

Mast Arm Length	① Foundation Depth*	② Foundation Diameter	③ Sprial Diameter	④ Quantity of No. 15 (No. 5) Bars
Less than 9.1 m (30')	3.0 m (10'-0")	750 (30)	600 (24)	8
Greater than or equal to 9.1 m (30') and less than 12.2 m (40')	4.1 m (13'-6")	750 (30)	600 (24)	8
	3.4 m (11'-0")	900 (36)	750 (30)	12
Greater than or equal to 12.2 m (40') and less than 15.2 m (50')	4.0 m (13'-0")	900 (36)	750 (30)	12
Greater than or equal to 15.2 m (50') and up to 16.8 m (55')	4.6 m (15'-0")	900 (36)	750 (30)	12

* These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (Qu) > 100 kPa (1.0 tsf). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & Structures should be contacted for a revised design if other conditions are encountered.

17B/STANDARD 878001-02
SHEET 2 OF 2

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REVISIONS NAME	DATE
REVISED	5/6/05

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
CONCRETE FOUNDATION DETAILS
SCALE:
DRAWN BY:
DATE: FEB. 25, 2005
CHECKED BY:

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