

SCHEDULE OF REINFORCEMENT-PART OF ITEMS 3

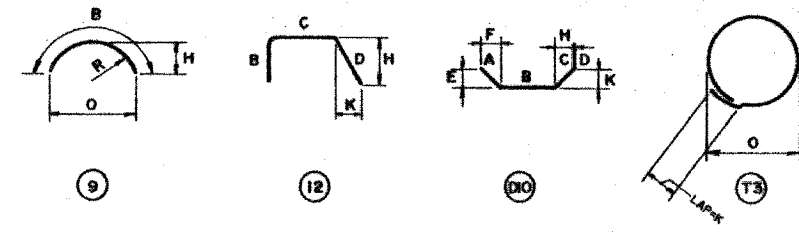
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94		COOK	860	266E
STA. 2200+00.00		TO STA. 2362+00.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
(1516.1, 1717 & 1818) R-B		62694		

STRUCTURE	REINFORCEMENT BAR				BENDING DIMENSIONS														
	MARK	SIZE	TYPE	NO. REQ'D	WEIGHT-LBS. EACH	TOTAL	A	B	C	D	E	F	G	H	J	K	O	R	
120" DIA.	80A1	6	T3	30'-5"	6	94.51												2'-8" 10'-5"	
	80A2	7	9	22'-5"	5	45.62												2'-8" 9'-2"	
	80A3	6	12	14'-8"	5	21.61												2'-8" 9'-2"	
	80A4	7	D10	14'-0"	12	39.86												2'-8" 9'-2"	
	80A5	8	12	17'-2"	5	42.76												2'-8" 9'-2"	
TOTAL							1551												
108" DIA.	80A1	7	T3	31'-11"	6	68.24												2'-8" 9'-5"	
	80A2	6	9	20'-5"	5	30.37												2'-8" 9'-5"	
	80A3	6	12	12'-5"	5	19.07												2'-8" 9'-5"	
	80A4	7	D10	17'-0"	12	38.81												2'-8" 9'-5"	
	80A5	5	T3	15'-1"	3	15.74												2'-8" 9'-5"	
TOTAL							1541												
102" DIA.	80A1	7	T3	30'-5"	6	94.51												2'-8" 9'-5"	
	80A2	6	9	19'-0"	5	28.54												2'-8" 9'-5"	
	80A3	6	12	13'-3"	5	16.40												2'-8" 9'-5"	
	80A4	7	D10	14'-0"	12	30.78												2'-8" 9'-5"	
	80A5	5	T3	15'-1"	3	15.74												2'-8" 9'-5"	
TOTAL							1462												
96" DIA.	80A1	7	T3	30'-5"	6	94.51												2'-8" 9'-5"	
	80A2	6	9	17'-8"	5	26.94												2'-8" 9'-5"	
	80A3	6	12	11'-6"	5	17.27												2'-8" 9'-5"	
	80A4	7	D10	14'-0"	12	30.38												2'-8" 9'-5"	
	80A5	5	T3	15'-1"	3	15.74												2'-8" 9'-5"	
TOTAL							1362												
90" DIA.	80A1	6	T3	26'-6"	6	59.30												2'-0" 7'-10"	
	80A2	5	9	16'-7"	5	17.30												2'-0" 7'-10"	
	80A3	6	12	11'-0"	5	15.82												2'-0" 7'-10"	
	80A4	7	D10	13'-9"	12	20.70												2'-0" 7'-10"	
	80A5	5	T3	15'-1"	3	15.74												2'-0" 7'-10"	
TOTAL							1030												
84" DIA.	80A1	6	T3	25'-3"	6	57.93												2'-0" 7'-4"	
	80A2	5	9	15'-5"	5	16.12												2'-0" 7'-4"	
	80A3	6	12	8'-8"	5	10.86												2'-0" 7'-4"	
	80A4	7	D10	12'-5"	12	19.79												2'-0" 7'-4"	
	80A5	5	T3	15'-1"	3	15.74												2'-0" 7'-4"	
TOTAL							300												
78" DIA.	78A1	6	T3	23'-7"	6	33.62												2'-0" 6'-10"	
	78A2	5	9	14'-3"	5	14.93												2'-0" 6'-10"	
	78A3	5	12	9'-3"	5	9.65												2'-0" 6'-10"	
	78A4	6	D10	11'-5"	12	17.26												2'-0" 6'-10"	
	78A5	5	T3	15'-1"	3	15.74												2'-0" 6'-10"	
TOTAL							867												
72" DIA.	72A1	6	T3	22'-0"	6	33.04												2'-0" 6'-4"	
	72A2	5	9	13'-3"	5	13.82												2'-0" 6'-4"	
	72A3	5	12	8'-6"	5	8.87												2'-0" 6'-4"	
	72A4	6	D10	9'-8"	12	14.94												2'-0" 6'-4"	
	72A5	5	T3	15'-1"	3	15.74												2'-0" 6'-4"	
TOTAL							790												

STRUCTURE	REINFORCEMENT BAR				BENDING DIMENSIONS														
	MARK	SIZE	TYPE	NO. REQ'D	WEIGHT-LBS. EACH	TOTAL	A	B	C	D	E	F	G	H	J	K	O	R	
66" DIA.	66A1	6	T3	20'-5"	6	30.73												2'-0" 5'-10"	
	66A2	5	9	11'-10"	5	12.35												2'-0" 5'-10"	
	66A3	5	12	8'-2"	5	8.52												2'-0" 5'-10"	
	66A4	5	D10	9'-11"	12	9.51												2'-0" 5'-10"	
	66A5	6	12	10'-4"	5	15.50												2'-0" 5'-10"	
TOTAL							691												
60" DIA.	60A1	6	T3	18'-11"	6	28.41												2'-0" 5'-4"	
	60A2	5	9	10'-9"	5	11.21												2'-0" 5'-4"	
	60A3	5	12	7'-4"	5	7.69												2'-0" 5'-4"	
	60A4	5	D10	8'-11"	12	8.48												2'-0" 5'-4"	
	60A5	5	T3	15'-1"	3	15.74												2'-0" 5'-4"	
TOTAL							564												
54" DIA.	54A1	6	T3	17'-4"	6	25.09												2'-0" 4'-6"	
	54A2	5	9	9'-5"	5	9.67												2'-0" 4'-6"	
	54A3	5	12	6'-8"	5	6.85												2'-0" 4'-6"	
	54A4	5	D10	7'-5"	12	7.50												2'-0" 4'-6"	
	54A5	5	T3	15'-1"	3	15.74												2'-0" 4'-6"	
TOTAL							311												
48" DIA.	48A1	6	T3	15'-9"	6	23.65												2'-0" 4'-0"	
	48A2	5	9	8'-0"	5	8.39												2'-0" 4'-0"	
	48A3	5	12	5'-9"	5	6.00												2'-0" 4'-0"	
	48A4	5	D10	6'-5"	12	6.79												2'-0" 4'-0"	
	48A5	5	T3	15'-1"	3	15.74												2'-0" 4'-0"	
TOTAL							464												
42" DIA.	42A1	6	T3	14'-2"	6	21.28												2'-0" 3'-10"	
	42A2	5	9	7'-6"	4	7.82												2'-0" 3'-10"	
	42A3	5	12	5'-4"	4	5.96												2'-0" 3'-10"	
	42A4	5	D10	6'-5"	12	6.79												2'-0" 3'-10"	
	42A5	5	T3	15'-1"	3	15.74												2'-0" 3'-10"	
TOTAL							389												
36" DIA.	36A1	6	T3	12'-7"	6	18.90												2'-0" 3'-4"	
	36A2	5	9	6'-0"	4	6.26												2'-0" 3'-4"	
	36A3	5	12	4'-6"	4	4.69												2'-0" 3'-4"	
	36A4	5	D10	5'-0"	12	5.22												2'-0" 3'-4"	
	36A5	5	T3	15'-1"	3	15.74												2'-0" 3'-4"	
TOTAL							339												
30" DIA.	30A1	6	T3	11'-1"	6	16.85												2'-0" 2'-10"	
	30A2	5	9	4'-4"	4	4.92												2'-0" 2'-10"	
	30A3	5	12	3'-10"	4	4.17												2'-0" 2'-10"	
	30A4	5	D10	4'-9"	12	4.96												2'-0" 2'-10"	
	30A5	5	T3	15'-1"	3	15.74												2'-0" 2'-10"	
TOTAL							292												
24" DIA.	24A1	6	T3	9'-5"	6	5.13												2'-0" 1'-4"	
	24A2	6	T3	9'-4"	7	14.08												2'-0" 1'-4"	
	24A3	5	12	3'-6"	10	3.65												2'-0" 1'-4"	
	24A4	5	D10	4'-9"	10	4.96												2'-0" 1'-4"	
	24A5	5	T3	15'-1"	3	15.74												2'-0" 1'-4"	
TOTAL							290												

Structural Notes:
 Placing of Concrete - Concrete Must be placed in accordance with the method outlined in the Specifications.
 Construction Joints - Joints not indicated on the Drawings Must be so made and located as not to impair the strength of the Structure and shall be approved by the Commissioner. Joints Must be constructed in accordance with the method outlined in the Specifications.
 Concrete Protection for Reinforcement - All reinforcing steel Must have clear concrete covering as follows (unless otherwise noted):
 3" at exterior surfaces where concrete is deposited against the ground;
 2.5" at surfaces where concrete is formed but subsequently will be in contact with sewage; 2" at all other surfaces.
 Reinforcing Steel - All reinforcing bars Must be accurately placed and securely supported by bar supports, spacers or high chairs.
 All laps in reinforcing steel Must be based upon the 1989, ACI Building Code.
 Unless otherwise noted, hooks and bends on bars Must conform to recommended details as given in the "Manual of Standard Practice", CR 51 - 1990.
 The following abbreviations are used to indicate the location of reinforcing bars:
 T. denotes Top N.F. denotes Near Face
 Bot. denotes Bottom F.E. denotes Far Face
 I.F. denotes Inside Face E.F. denotes Each Face
 O.F. denotes Outside Face E.W. denotes Each Way

Placing Bar Supports - All reinforcing bars Must be supported, anchored and tied and Must conform to "Recommended Practice for placing Reinforcing Bars" 1986, Prepared by the Concrete Reinforcing Steel Institute.



Note: All Dimensions Are Out to Out of Bar. Bending Radii "R" to Outside of Bar. Numbers in Circles Denote Bar Type