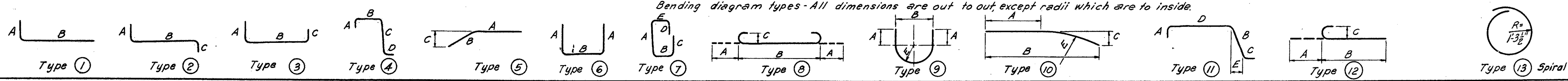


REINFORCING STEEL BAR SCHEDULE

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO	I-1103(19)	

LAKE COUNTY
LAK.-1-2.16

2965
3/2



PIERS										
MARK	TOTAL	SIZE	LENGTH	TYPE	A	B	WEIGHT			
P1001	60	10	16'-0"	Str.			4325			
P1002	80	10	20'-2"	Str.			6942			
P1003	60	10	23'-11"	Str.			6175			
P1004	60	10	19'-0"	Str.			4905			
P1005	60	10	21'-0"	Str.			5422			
P1006	320	10	6'-10"	1	1'-4 1/2"	5'-9"	9409			
P901	70	9	24'-10"	1	2'-7"	22'-0"	3910			
P902	30	9	41'-0"	8	1'-3"	38'-6"	4182			
P801	40	8	10'-10"	8	1'-1"	8'-8"	1157			
P802	48	8	12'-10"	8	1'-1"	10'-8"	1645			
P701	96	7	10'-4	8	10"	8'-8"	2028			
P601	288	6	9'-0"	8	8"	7'-8"	3893			
P501	10	5	2'-8"	6	7 3/8"	1'-8"	28			
P502	10	5	3'-3"	6	7 3/8"	2'-3"	34			
P503	100	5	3'-8"	6	7 3/8"	2'-8"	382			
P504	10	5	38'-6"	Str.			402			
P505	270	5	7'-5"	6	2'-6"	2'-8"	2089			
P506	40	5	8'-8"	9	2'-6"	2'-4"	0"	0"	1'-2"	362

SUPERSTRUCTURE							
MARK	TOTAL	SIZE	LENGTH	TYPE	A	B	WEIGHT
S401	1304	4	4'-2"	4	1'-4"	8"	3630
S402	1304	4	3'-0"	1	6 1/4"	2'-7"	2613
S501	941	5	30'-0"	Str.			29444
S502	276	5	28'-9" to 7'-3"	Str.	6 sets of 46 each, vary by 5 1/2"		5182
S503	72	5	6'-3"	Str.			469
S504	1304	5	4'-9"	11	7 3/8"	1'-1"	6460
S601	941	6	30'-0"	Str.			42401
S602	276	6	28'-9" to 7'-3"	Str.	6 sets of 46 each, vary by 5 1/2"		7462
S603	72	6	6'-3"	Str.			676
S604	102	6	24'-9"	Str.			3792
S605	255	6	37'-0"	Str.			14171
S606	24	6	40'-0"	Str.			1442
S607	20	6	37'-0"	Str.			1111
S608	612	6	37'-2	Str.			34165
S609	66	6	40'-0"	Str.			3965

ABUTMENT No.1							
MARK	TOTAL	SIZE	LENGTH	TYPE	A	B	WEIGHT
A601	42	6	15'-6"	7	6'-0"	1'-5"	978
A602	43	6	9'-8"	1	5'-3"	4'-7"	624
A501	34	5	24'-3"	Str.			860
A502	45	5	3'-5"	Str.			160
A503	24	5	3'-4"	6	7 3/8"	2'-4"	83
A504	6	5	25'-10"	Str.			162
A505	2	5	24'-1"	Str.			50
A506	43	5	3'-3"	Str.			146
A507	6	5	15'-0"	Str.			94
A508	2	5	15'-5"	Str.			32
A509	4	5	16'-8"	Str.			70
A510	42	5	6'-1"	6	1'-7"	3'-2"	266
A511	33	5	8'-5"	6	3'-9"	1'-2"	290
A512	8	5	7'-1"	Str.			59
A513	6	5	6'-9"	Str.			42
A514	12	5	18'-6"	Str.			232
A515	8	5	5'-2"	Str.			43
A516	8	5	4'-2"	Str.			35
A517	10	5	14'-8"	Str.			153
A518	8	5	13'-7"	Str.			113
A519	26	5	8'-9"	Str.			237
A520	26	5	8'-5"	Str.			228
A521	4	5	15'-2"	Str.			63
A522	4	5	11'-3"	Str.			47
A523	16	5	3'-6"	Str.			58
A524	4	5	3'-9"	Str.			16
A525	4	5	4'-0"	Str.			17
A526	4	5	4'-3"	Str.			18
A527	16	5	4'-5"	11	7 3/8"	1'-3"	74
A528	16	5	3'-4"	1	7 3/8"	2'-10"	56
A529	4	5	4'-2"	11	7 3/8"	1'-3"	17
A530	4	5	3'-1"	1	7 3/8"	2'-7"	13
A531	12	5	2'-10" to 4'-1"	11	7 3/8"	1'-3"	43
A532	12	5	1'-9" to 3'-0"	1	7 3/8"	1'-3"	30
A533	2	5	2'-6"	11	7 3/8"	1'-3"	5
A534	2	5	1'-5"	11	7 3/8"	1'-3"	3
A535	2	5	2'-1"	11	7 3/8"	1'-3"	4
A536	2	5	1'-0"	11	7 3/8"	1'-3"	2
A537	1	5	4'-11"	11	7 3/8"	1'-3"	5
A538	1	5	3'-10"	1	7 3/8"	3'-4"	4
A539	1	5	3'-7"	4	7 3/8"	2'-0"	4
A540	1	5	2'-4"	1	7 3/8"	1'-10"	2
A541	1	5	2'-9"	4	7 3/8"	1'-2"	3
A542	1	5	1'-6"	1	7 3/8"	1'-0"	2
A543	1	5	2'-8"	11	7 3/8"	1'-3"	3
A544	1	5	1'-9"	1	7 3/8"	1'-3"	2
A545	1	5	5'-1"	11	7 3/8"	1'-3"	5
A546	1	5	4'-0"	1	7 3/8"	3'-6"	4
A547	2	5	20'-10"	10	8'-11"	20'-7"	43
A548	2	5	17'-6"	Str.			37
A549	1	5	13'-5"	Str.			14
A550	2	5	16'-5"	10	4'-6"	16'-2"	34
A551	1	5	15'-9"	Str.			16
A552	9	5	6'-2"	8	7"	5'-0"	58
A553	4	5	7'-3"	5	3'-4"	4'-0"	30
A401	36	4	3'-2"	1	6 1/2"	2'-9"	76
A402	36	4	4'-2"	4	1'-4"	8"	100
RA403	8	4	17'-0"	Str.			Included with railing for payment

ABUTMENT No.2							
MARK	TOTAL	SIZE	LENGTH	TYPE	A	B	WEIGHT
B601	42	6	20'-5"	7	8'-5"	1'-5"	1288
B602	43	6	13'-5"	1	8'-3"	3'-2"	867
B603	45	6	9'-1"	6	4'-1"	1'-2"	614
B501	48	5	24'-3"	Str.			1,214
B502	45	5	6'-8"	Str.			313
B503	24	5	3'-4"	6	7 3/8"	2'-4"	83
B504	6	5	27'-5"	Str.			172
B505	2	5	24'-10"	Str.			52
B506	43	5	3'-10"	Str.			172
B507	2	5	21'-11"	Str.			46
B508	4	5	22'-4"	Str.			93
B509	2	5	21'-8"	Str.			45
B510	4	5	24'-1"	Str.			100
B511	80	5	8'-7"	6	1'-7"	5'-8"	716
B512	8	5	12'-4"	Str.			103
B513	6	5	12'-10"	Str.			80
B514	12	5	5'-2"	Str.			65
B515	12	5	4'-2"	Str.			52
B516	14	5	22'-1"	Str.			322
B517	16	5	21'-0"	Str.			350
B518	12	5	26'-6"	Str.			332
B519	20	5	3'-5"	Str.			71
B520	4	5	4'-4"	Str.			18
B521	4	5	5'-4"	Str.			22
B522	4	5	6'-6"	Str.			27
B523	4	5	21'-9"	Str.			91
B524	4	5	20'-7"	Str.			86
B525	4	5	19'-6"	Str.			81
B526	4	5	18'-6"	Str.			77
B527	38	5	14'-0"	Str.			553
B528	38	5	14'-6"	Str.			575
B529	4	5	9'-7"	5	4'-3"	5'-5"	40
B530	2	5	25'-6"	Str.			53
B531	1	5	23'-9"	Str.			25
B532	1	5	2'-9"	4	7 3/8"	1'-2"	3
B533	1	5	1'-6"	1	7 3/8"	1'-0"	2
B534	2	5	2'-1"	11	7 3/8"	1'-3"	4
B535	2	5	1'-0"	1	7 3/8"	6"	2
B536	2	5	2'-6"	11	7 3/8"	1'-3"	5
B537	2	5	1'-5"	1	7 3/8"	11"	3
B538	12	5	2'-10" to 4'-1"	11	7 3/8"	1'-3"	43
B539	12	5	1'-9" to 3'-0"	1	7 3/8"	1'-3"	30
B540	4	5	4'-2"	11	7 3/8"	1'-3"	17
B541	4	5	3'-1"	1	7 3/8"	2'-7"	13
B542	32	5	4'-5"	11	7 3/8"	1'-3"	147
B543	32	5	3'-4"	1	7 3/8"	2'-10"	111
B544	1	5	21'-5"	Str.			22
B545	2	5	24'-5"	10	12'-6"	24'-2"	51
B546	1	5	5'-1"	11	7 3/8"	1'-3"	5
B547	1	5	4'-0"	1	7 3/8"	3'-6"	4
B548	1	5	2'-8"	11	7 3/8"	1'-3"	3
B549	1	5	1'-9"	1	7 3/8"	1'-3"	2
B550	1	5	4'-11"	11	7 3/8"	1'-3"	5
B551	1	5	3'-10"	1	7 3/8"	3'-4"	4
B552	1	5	3'-7"	4	7 3/8"	2'-0"	4
B553	1	5	2'-4"	1	7 3/8"	1'-10"	2
B554	2	5	28'-10"	10	16'-11"	28'-7"	60
B555	10	5	6'-2"	8	7"	5'-0"	64
B401	52	4	3'-2"	1	6 1/2"	2'-9"	110
B402	52	4	4'-0"	4	1'-2"	8"	139
RB404	8	4	25'-0"	Str.			Included with railing for payment

SPIRAL BARS						
MARK	TOTAL	SIZE	LENGTH	PITCH	NO. OF TURNS	WEIGHT
SP401	4	1/2"	14'-0"	4 1/2"	41	1059
SP402	4	1/2"	17'-4"	4 1/2"	50	1,295
SP403	4	1/2"	21'-1"	4 1/2"	60	1,556
SP404	4	1/2"	16'-2"	4 1/2"	47	1,216
SP405	4	1/2"	17'-2"	4 1/2"	49	1,269

R401	16	4	10'-8"	Str.		Included
R402	16	4	13'-0"	Str.		with
R403	16	4	13'-4"	Str.		
R404	72	4	16'-6"	Str.		railing
R405	16	4	13'-8"	Str.		for
R406	184	4	17'-0"	Str.		payment

SPIRAL NOTES

The "length" shown in the steel list for the spiral bars is the distance from the top of the footing to the bottom of the pier cap.

The "No. of Turns" shown in the steel list for the spiral bars is the "length" divided by the pitch, plus 3 turns (total number of closed coils), expressed as the nearest whole number.

Spiral reinforcing bars shall not have deformations but shall in other respects conform to Item S-4.

1/2" closed coils shall be provided at ends of each spiral unit.

Four steel channel, tee or angle spacers, weighing approximately 0.68 lbs. per lin. ft. of spacer, shall be provided for each spiral unit. They shall be equally spaced along the periphery of the coil. The number of pounds of these spacers, based on 0.68 lbs. per lin. ft., will be paid for as reinforcing steel and is included in the tabulated quantity of spiral bars.

Additional Estimated Quantities due to Increase in Vertical Clearance.

ESTIMATED QUANTITIES							
ITEM	TOTAL	UNIT	DESCRIPTION	SUPERSTR.	ABUTS.	PIERS	GENERAL
E-2	386	Cu. Yds.	Unclassified Excavation		315	71	
E-2	192	Cu. Yds.	Shale Excavation			192	
S-1	641	Cu. Yds.	Class "C" Concrete, Superstructure	641			
S-1	167	Cu. Yds.	Class "C" Concrete, Pier Caps & Columns			167	
S-1	167	Cu. Yds.	Class "E" Concrete, Abutments above footings		167		
S-1	236	Cu. Yds.	Class "E" Concrete, Footings		71	165	
S-4	238,188	Lbs.	Reinforcing Steel	156,983	15,520	65,685	
S-7	975,100	Lbs.	Structural Steel	975,100			
S-8	975,100	Lbs.	Field Painting of Structural Steel	975,100			
S-14	1,392	Lin. Ft.	Railing (Aluminum Rail & Supports, Concrete Parapet)				1,392
S-16	Lump	Sum	First Test Pile				
S-18	1,747	Lin. Ft.	Steel Piles, 12 BP53			1,747	
S-29	37	Cu. Yds.	Porous Backfill		37		
F40	777	Sq. Yds.	Crushed Aggregate Slope Protection				777</