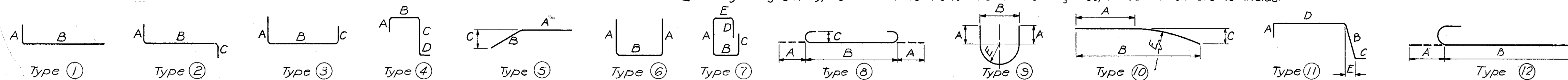


### REINFORCING STEEL BAR SCHEDULE

Bending diagram types - All dimensions are out to out, except radii which are to inside.



ABUTMENTS										
MARK	TOTAL	SIZE	LENGTH	TYPE	A	B	C	D	E	WEIGHT
A601	122	6	9'-7"	1	5'-4"	4'-5"				1756
A602	130	6	13'-4"	7	5'-3"	1'-5"	3'-11"	2'-6"	11"	2603
A503	16	5	36'-9"	str						613
A504	118	5	3'-0"	str						369
A505	12	5	11'-6"	str						144
A506	4	5	10'-8"	str						45
A507	4	5	13'-4"	str						56
A508	36	5	10'-5"	6	4'-9"	1'-2"				391
A509	56	5	7'-4"	6	2'-2"	3'-2"				428
A510	8	5	5'-8"	1	1'-0"	4'-9"				47
A511	136	5	2'-6"	str						355
A512	56	5	35'-2"	str						2054
A513	96	5	3'-3"	6	8"	2'-2"				325
A514	6	5	10'-4"	str						65
A515	18	5	9'-10"	str						185
A516	8	5	8'-7"	str						72
A517	24	5	13'-6"	str						338
A518	8	5	5'-9"	5	3'-9"	2'-0"	10"			48
A519	24	5	4'-0"	str						100
A520	16	5	5'-2"	str						86
A521	80	5	7'-0"	str						584
A522	8	5	4'-0"	str						33
A523	40	5	3'-7"	str						149
A524	4	5	13'-0"	str						54
A525	4	5	13'-4"	10	1'-4"	13'-3"	1'-2"		71'-10"	56
A526	4	5	14'-9"	10	2'-9"	14'-8"	1'-2"		71'-10"	62
A527	10	5	2'-4"	1	8"	1'-10"				24
A528	12	5	2'-3"	1	8"	1'-9"				28
A529	12	5	2'-1"	1	8"	1'-7"				26
A530	8	5	1'-10"	1	8"	1'-4"				15
A531	8	5	1'-6"	1	8"	1'-0"				13
A532	4	5	1'-2"	1	8"	8"				5
A533	10	5	3'-7"	11	8"	1'-4"	0"	1'-10"	3"	37
A534	12	5	3'-6"	11	8"	1'-4"	0"	1'-9"	3"	44
A535	12	5	3'-4"	11	8"	1'-4"	0"	1'-7"	3"	42
A536	8	5	3'-1"	11	8"	1'-4"	0"	1'-4"	3"	26
A537	8	5	2'-9"	11	8"	1'-4"	0"	1'-0"	3"	23
A538	4	5	2'-5"	11	8"	1'-4"	0"	8"	3"	10
A539	4	5	2'-9"	6	1'-0"	1'-0"				11
A440	48	4	3'-1"	1	6"	2'-8"				99
A441	48	4	4'-2"	4	1'-3"	8"	2'-1"	6"		134
RA442	16	4	12'-11"	str						Included with railing for payment 11,555

SUPERSTRUCTURE										
MARK	TOTAL	SIZE	LENGTH	TYPE	A	B	C	D	E	WEIGHT
N701	192	7	30'-10"	str						12,100
N702	158	7	27'-2"	str						8,774
N703	34	7	25'-4" to 10'-9"	str	2 each vary about 11"					1,254
N704	72	7	38'-3" to 6'-5"	str	2 each vary about 11"					3,287
N705	8	7	6'-4"	str						104
N606	192	6	30'-8"	str						8,844
N607	158	6	27'-0"	str						6,408
N608	34	6	25'-2" to 10'-7"	str						913
N609	72	6	38'-3" to 6'-5"	str						2,415
N610	8	6	6'-4"	str						76
N611	360	6	37'-6"	str						20,277
N612	74	6	22'-0"	str						2,445
N513	288	5	3'-7"	11	6"	1'-3"	6"	1'-0"	3"	1,076
N414	288	4	3'-1"	1	6"	2'-8"				593
N415	288	4	4'-2"	4	1'-3"	8"	2'-1"	6"		802
RN416	64	4	14'-8"	str						Included with railing for payment
RN417	16	4	12'-0"	str						Included with railing for payment
Total Weight 69,368										

PIERS										
MARK	TOTAL	SIZE	LENGTH	TYPE	A	B	C	D	E	WEIGHT
P1101	4	11	38'-0"	1	3'-3"	35'-4"				808
P1102	8	11	37'-10"	1	3'-3"	34'-11"				1608
P1103	8	11	36'-8"	1	3'-3"	33'-9"				1558
P1104	8	11	24'-5"	str						1038
P1105	4	11	37'-4"	str						793
P1106	28	11	24'-8"	12	1'-7"	23'-1"				3670
P1107	14	11	24'-10"	str						1847
P1108	36	11	24'-2"	str						7190
P1109	56	11	24'-4"	str						7239
P1110	112	11	7'-4"	1	1'-6"	6'-2"				4364
P711	176	7	9'-4"	8	10"	7'-8"	7"			3358
P512	4	5	3'-5"	6	1'-0"	1'-9"				14
P513	4	5	3'-10"	6	1'-0"	2'-2"				16
P514	88	5	4'-4"	6	1'-0"	2'-8"				397
P515	168	5	7'-2"	6	2'-5"	2'-8"				1256
P516	8	5	32'-10"	str						274
P517	16	5	8'-2"	9	2'-3"	2'-4"			1'-1/2"	136
Total Weight 38,665										

SPIRAL BARS							
MARK	TOTAL	SIZE	LENGTH	PITCH	NO OF TURNS	CORE DIA.	WEIGHT
SP401	4	1/2"	20'-10"	4 1/2"	59	32"	1549
SP402	4	1/2"	21'-0"	4 1/2"	59	32"	1550
Total Weight 38,665							

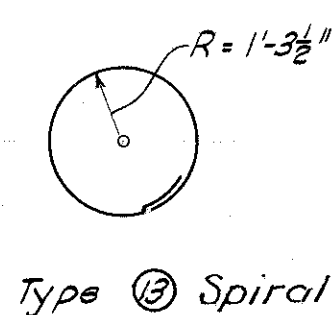
### SPIRAL NOTES

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.

### BAR SIZE

Bar size is indicated in the bar mark. The first digit where three digits are used, and the first two digits where four are used, indicate the bar size number. For example, A401 is a No. 4 size bar and A114 is a No. 11 size bar.

REPLACEMENT BARS					
MARK	NO.	SIZE	LENGTH	TYPE	WEIGHT
RE1101	2	11	7'-6"	str	80
RE702	2	7	6'-3"	str	26
RE603	3	6	5'-11"	str	27
RE504	1	5	5'-7"	str	6
RE405	1	4	5'-3"	str	4
RE406	1	1/2"	5'-3"	13	4



### REPLACEMENT BARS

If reinforcing bars are fabricated from stock which has previously been tested and approved by the Ohio Highway Testing Laboratory, test sample as provided in section S-4.02 need not be furnished and replacement bars will not be required.

ESTIMATED QUANTITIES							
ITEM	TOTAL	UNIT	DESCRIPTION	SUPERSTR.	ABUTS.	PIERS	GENERAL
E-2	Lump	Sum	Cofferdams, Cribbs, & Sheeting				Lump Sum
E-2	547	Cu. Yds.	Unclassified Excavation		250	297	
S-1	243	Cu. Yds.	Class "C" Concrete, Superstructure	243			
S-1	100	Cu. Yds.	Class "C" Concrete, Pier Caps & Columns			100	
S-1	106	Cu. Yds.	Class "E" Concrete, Abutments above Footings		106		
S-1	162	Cu. Yds.	Class "E" Concrete, Footings		105	57	
S-4	119,588	Lbs.	Reinforcing Steel	69,368	11,555	38,665	
S-7	194,600	Lbs.	Structural Steel	194,600			
S-8	194,600	Lbs.	Field Painting of Structural Steel	194,600			
S-14	343	Lin. Ft.	Railing (Aluminum Rail & Supports, Concrete Parapet)	290	53		
S-18	900	Lin. Ft.	Steel Piles - 12BP59		900		
S-29	40	Cu. Yds.	Porous Backfill		40		
I-10	660	Sq. Yds.	Crushed Aggregate Slope Protection				660
I-127	1	Ea.	Bridge Delineator				1

The FIRST TEST PILE, Item S-16 in the Estimated Quantities for LAK-1-0499 (Southbound), may be driven at either LAK-1-0499 (Southbound) or LAK-1-0499 (Northbound).

MICHAEL BAKER JR., CONSULTING ENGINEERS  
 ROCHESTER, PENNSYLVANIA

### REINFORCING STEEL LIST & ESTIMATED QUANTITIES

NORTH BOUND BRIDGE  
 BRIDGE NO. LAK-1-0499  
 OVER RIVERSIDE DRIVE

LAKE COUNTY TO STA. 269 + 83.49  
 TO STA. 271 + 32.07

Designed	Drawn	Traced	Checked	Reviewed/Date	Revised
Y.G.	L.E.	L.E.	J.V.W.	M.B.B.	
R.W.J.		M.B.M.		4-25-58	