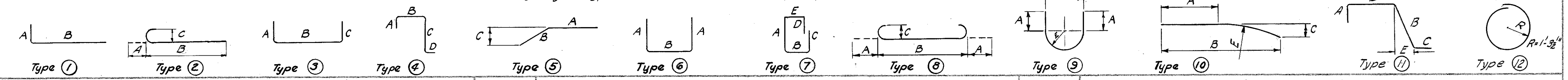


CUYAHOGA & LAKE COUNTIES.
 CUY-1-15.91, LAK-1-0.00

REINFORCING STEEL BAR SCHEDULE

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



PIERS										
MARK	TOTAL	SIZE	LENGTH	TYPE	A	B	C	D	E	WEIGHT
P1001	14	10	15'-0"	Str.						904
P1002	39	10	21'-9"	Str.						3,650
P1003	39	10	6'-11"	1	1'-4 1/2"	5'-10"				1,161
P901	14	9	28'-11"	G	2'-9"	24'-0"				1,376
P902	14	9	31'-5"	G	2'-9"	26'-6"				1,495
P903	7	9	31'-0"	G	2'-9"	26'-7"				750
P904	35	9	26'-6"	B	1'-3"	24'-0"	1/2"			3,154
P801	39	8	21'-7"	Str.						2,247
P802	39	8	20'-5"	Str.						2,126
P803	39	8	20'-10"	Str.						2,169
P804	39	8	21'-0"	Str.						2,187
P805	39	8	20'-0"	Str.						2,083
P806	39	8	18'-6"	Str.						1,926
P807	234	8	6'-1"	1	1'-1 1/2"	5'-2"				3,801
P601	378	6	7'-10"	8	8"	6'-6"	6"			4,447
P501	196	5	6'-7"	6	2'-1"	2'-8"				1,346
P502	56	5	7'-0"	9	1'-7"	2'-4 1/2"	1'-1 1/2"			409
P503	140	5	3'-8"	6	7 3/8"	2'-8"				536
P504	14	5	3'-4"	6	7 3/8"	2'-4"				49
P505	14	5	2'-11"	6	7 3/8"	1'-11"				43
P506	14	5	24'-0"	Str.						350

ABUTMENTS										
MARK	TOTAL	SIZE	LENGTH	TYPE	A	B	C	D	E	WEIGHT
A601	54	6	15'-0"	7	6'-0"	1'-5"	4'-8"	2'-11"	8"	1217
A602	60	6	6'-0"	1	3 3/4"	5'-4"				541
A501	32	5	29'-9"	Str.						993
A502	60	5	2'-5"	Str.						151
A503	48	5	3'-2"	6	7 3/8"	2'-2"				159
A504	14	5	7'-3"	8	7"	6'-1"	5 1/2"			106
A505	16	5	31'-9"	Str.						530
A506	60	5	9'-4"	6	2'-1"	5'-5"				584
A507	14	5	10'-5"	6	4'-9"	1'-2"				152
A508	26	5	5'-3"	1	7 3/8"	4'-9"				142
A509	52	5	7'-1"	6	2'-1"	3'-2"				384
A510	20	5	10'-4"	Str.						216
A511	28	5	7'-2"	Str.						209
A512	24	5	8'-5"	Str.						211
A513	32	5	3'-9"	Str.						125
A514	8	5	5'-9"	Str.						48
A515	32	5	15'-7"	Str.						453
A516	48	5	3'-6"	Str.						175
A517	8	5	8'-0"	5	6'-3"	1'-9"	9"			67
A518	8	5	4'-0"	Str.						33
A519	28	5	7'-3"	Str.						212
A520	8	5	5'-10"	Str.						49
A521	20	5	4'-5"	11	7 3/8"	1'-3"	0	2'-9"	3"	92
A522	20	5	3'-4"	1	7 3/8"	2'-10"				70
A523	8	5	4'-3"	11	7 3/8"	1'-3"	0	2'-7"	3"	35
A524	8	5	3'-2"	1	7 3/8"	2'-8"				26
A525	24	5	4'-1" to 2'-10"	11	7 3/8"	1'-3"	0	2'-3" to 1'-2"	3"	87
A526	24	5	3'-0" to 1'-9"	1	7 3/8"	2'-6" to 2'-3"				59
A527	4	5	2'-6"	11	7 3/8"	1'-3"	0	10"	3"	10
A528	4	5	1'-5"	1	7 3/8"	11"				6
A529	4	5	2'-11"	11	7 3/8"	1'-3"	0	5"	3"	9
A530	4	5	1'-0"	1	7 3/8"	6"				4
A531	4	5	12'-0"	Str.						50
A532	2	5	9'-3"	Str.						19
A533	4	5	14'-0"	10	2'-11"	13'-9"	2'-5"	29'-9 3/8"		58
A534	2	5	9'-0"	Str.						19
A535	4	5	13'-7"	10	1'-8"	13'-4"	2'-5"	29'-9 3/8"		57
A401	52	4	3'-2"	1	6 1/2"	2'-9"				110
A402	52	4	4'-1"	4	1'-2"	8"	2'-0"	6 3/4"		142
A403	16	4	12'-11"	Str.						Included with Railing for Payment

SUPERSTRUCTURE										
MARK	TOTAL	SIZE	LENGTH	TYPE	A	B	C	D	E	WEIGHT
SG01	833	6	31'-2"	Str.						38,995
SG02	857	6	30'-0"	Str.						38,616
SG03	154	6	28'-0"	Str.						6,477
S501	857	5	30'-0"	Str.						26,816
S502	1002	5	5'-0"	11	7 3/8"	1'-3"	7 3/8"	2'-10"	3"	5,225
S401	1002	4	3'-3"	1	6 1/2"	2'-10"				2,175
S402	1002	4	4'-2"	4	1'-4"	8"	2'-0"	6 1/2"		2,789
R403	232	4	16'-0"	Str.						Included with railing for payment
R404	16	4	13'-0"	Str.						

Total Weight 121,093 Lbs.

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.

ESTIMATED QUANTITIES							
ITEM	TOTAL	UNIT	DESCRIPTION	SUPERSTR.	ABUTS.	PIER	GENERAL
E-2	342	Cu.Yds.	Unclassified excavation		157	185	
E-2	133	Cu.Yds.	Shale excavation			133	
S-1	480	Cu.Yds.	Class "C" Concrete, Superstructure	480			
S-1	162	Cu.Yds.	Class "C" Concrete, Pier caps & Columns			162	
S-1	60	Cu.Yds.	Class "E" Concrete, Abutments above footings		60		
S-1	165	Cu.Yds.	Class "E" Concrete, footings		51	114	
S-4	171,882	Lbs.	Reinforcing Steel	121,093	7610	43,179	
S-7	359,400	Lbs.	Structural Steel	359,400			
S-8	359,400	Lbs.	Field painting of Structural Steel, as per plan.	359,400			
S-14	1,050	Lin.ft.	Railing (Aluminum Rail & Supports, Concrete Parapet)		1,001	49	
S-16	Lump	Sum	First test pile				Lump
S-18	448	Lin.ft.	Steel piles, 12BP53		448		
S-29	18	Cu.Yds.	Porous backfill		18		
I-10	441	Sq.Yds.	Crushed Aggregate Slope Protection				441

REPLACEMENT BARS					
MARK	NO.	SIZE	LENGTH	TYPE	WEIGHT
RE 1001	1	10	7'-2"	Str.	
RE 1902	1	9	6'-10"	2	
RE 803	1	8	6'-6"	Str.	
RE 604	5	6	5'-11"	Str.	
RE 505	3	5	5'-7"	Str.	
RE 406	1	4	5'-3"	Str.	
RE 407	1	3/4"	5'-3"	12	

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-402 need not be furnished and replacement bars will not be required.

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.

MICHAEL BAKER JR., CONSULTING ENGINEERS
 ROCHESTER, PENNSYLVANIA

REINFORCING STEEL LIST & ESTIMATED QUANTITIES
 BRIDGE NO. LAK-1-0127
 UNDER EDDY ROAD

LAKE COUNTY STA. 67+24.25

Designed	Drawn	Traced	Checked	Reviewed-Date	Revised
G.B.W.	B.R.S.	B.R.S.	H.C.M.	H.G.H.-12-30-58	4-19-60