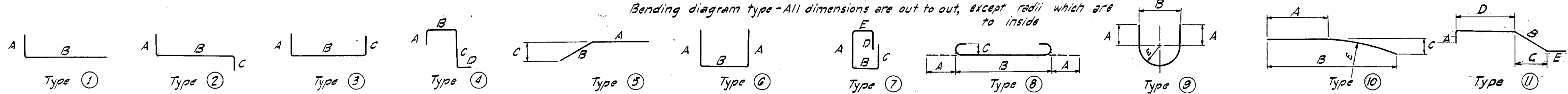


REINFORCING STEEL BAR SCHEDULE

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



PIERS										
MARK	TOTAL	SIZE	LENGTH	TYPE	A	B	C	D	E	WEIGHT
P901	20	9	20'-0"	Str.						1,360 Lbs.
P902	30	9	27'-4"	8	15"	24'-10"	11 1/4"			2,788
P903	36	9	18'-4"	Str.						2,244
P904	36	9	20'-4"	Str.						2,489
P905	36	9	20'-4"	Str.						2,489
P906	36	9	20'-8"	Str.						2,530
P907	36	9	18'-0"	Str.						2,203
P908	180	9	6'-7"	1	15 1/2"	5'-7"				4,089
P909	20	9	11'-0"	Str.						748
P910	40	9	9'-0"	1	2'-8"	6'-6"				1,224
P901	300	8	9'-10"	8	1'-1"	7'-8"	9"			7,870
P501	40	5	7'-0"	9	1'-7"	2'-4 1/2"			1'-1 1/2"	292
P502	140	5	6'-9"	6	2'-2"	2'-8"				986
P503	10	5	24'-10"	Str.						259
P504	10	5	2'-9"	6	7 1/8"	1'-9"				29
P505	10	5	3'-2"	6	7 1/8"	2'-2"				33
P506	100	5	3'-8"	6	7 1/8"	2'-8"				382

SPIRAL BARS							
MARK	TOTAL	SIZE	LENGTH	PITCH	No. of Turns	CORE DIA.	WEIGHT
SP401	3	1/2" φ	15'-8"	4 1/2"	49	32"	884
SP402	3	1/2" φ	17'-8"	4 1/2"	50	32"	984
SP403	3	1/2" φ	17'-8"	4 1/2"	50	32"	984
SP404	3	1/2" φ	18'-0"	4 1/2"	51	32"	1004
SP405	3	1/2" φ	15'-4"	4 1/2"	44	32"	865
Total Weight							36,682 Lbs.

ABUTMENTS										
MARK	TOTAL	SIZE	LENGTH	TYPE	A	B	C	D	E	WEIGHT
A601	58	6	6'-3"	1	9 3/8"	5'-7"				544 Lbs.
A602	56	6	15'-7"	7	6'-3"	1'-5"	4'-11"	2'-11"	9"	1311
A503	48	5	7'-1"	6	2'-1"	3'-2"				355
A504	16	5	10'-5"	6	4'-9"	1'-2"				174
A505	14	5	10'-5"	Str.						152
A506	6	5	11'-1"	Str.						69
A507	16	5	32'-11"	Str.						549
A508	108	5	9'-6"	6	2'-2"	5'-5"				1070
A509	58	5	2'-7"	Str.						156
A510	48	5	3'-2"	6	7 1/8"	2'-2"				159
A511	32	5	30'-10"	Str.						1029
A512	48	5	7'-8"	Str.						384
A513	24	5	8'-5"	Str.						211
A514	8	5	6'-5"	Str.						54
A515	8	5	8'-10"	Str.						74
A516	24	5	14'-5"	Str.						361
A517	8	5	4'-2"	Str.						35
A518	8	5	3'-9"	Str.						31
A519	32	5	3'-9"	Str.						117
A520	8	5	8'-0"	5	4'-10"	3'-2"	1'-0"			67
A521	24	5	6'-1"	Str.						152
A522	32	5	3'-8"	Str.						122
A523	20	5	3'-4"	1	7 1/8"	2'-10"				70
A524	4	5	15'-3"	10	3'-3"	14'-11"	2'-5"		29'-9 1/2"	64
A525	4	5	13'-6"	Str.						56
A526	4	5	10'-0"	Str.						42
A527	20	5	4'-5"	11	7 1/8"	1'-3"	3"	2'-9"	0"	92
A528	8	5	4'-3"	11	7 1/8"	1'-3"	3"	2'-7"	0"	35
A529	8	5	3'-2"	1	7 1/8"	2'-8"				26
A530	24	5	2'-10" to 4'-11"	11	7 1/8"	1'-3"	3"	1'-2" to 2'-5" 1/2"		87
A531	24	5	1'-9" to 3'-0"	1	7 1/8"	1'-3" to 2'-6"	*			60
A532	4	5	2'-6"	11	7 1/8"	1'-3"	3"	10"	0"	10
A533	4	5	1'-5"	1	7 1/8"	11"				6
A534	4	5	2'-1"	11	7 1/8"	1'-3"	3"	5"	0"	9
A535	4	5	1'-0"	1	7 1/8"	6"				4
A536	4	5	14'-2"	10	2'-2"	19'-10"	2'-5"		29'-9 1/2"	59
A537	24	5	5'-3"	1	7 1/8"	4'-3"				131
A538	14	5	7'-2"	8	7"	6'-0"	5 1/2"			105
A439	52	4	4'-3"	4	1'-2"	8"	2'-2"	6 1/2"		148
A440	52	4	3'-0"	1	6 1/2"	2'-7"				104
R441	16	4	12'-11"	Str.						Included with Railing for Payment.
Total Weight										8,284 Lbs.

SUPERSTRUCTURE										
MARK	TOTAL	SIZE	LENGTH	TYPE	A	B	C	D	E	WEIGHT
S601	561	6	37'-11"	Str.						31,949 Lbs.
S602	110	6	29'-0"	Str.						4,791
S603	669	6	30'-0"	Str.						30,145
S604	22	6	8'-0" to 28'-5"	Str.					2 each, vary by 2'-0 1/2"	602
S605	4	6	7'-0"	Str.						42
S606	669	5	30'-0"	Str.						20,933
S507	22	5	8'-0" to 28'-5"	Str.					2 each, vary by 2'-0 1/2"	418
S508	4	5	7'-0"	Str.						29
S509	798	5	5'-0"	11	7 1/8"	1'-5"	3"	2'-10"	7 1/8"	4,162
S410	800	4	3'-3"	1	6 1/2"	2'-10"				1,737
S411	800	4	4'-2"	4	1'-6"	8"	2'-0"	6 1/2"		2,227
R412	184	4	15'-10"	Str.						Included with Railing for Payment
R413	16	4	13'-7"	Str.						
Total Weight										97,035 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 coil), 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	445	Cu.Yds.	Unclassified Excavation		145	300	
E-2	27	Cu.Yds.	Shale Excavation			27	
S-1	385	Cu.Yds.	Class "C" Concrete, Superstructure	385			
S-1	115	Cu.Yds.	Class "C" Concrete, Pier, Caps and Columns.			115	
S-1	67	Cu.Yds.	Class "E" Concrete, Abutments above Footings		67		
S-1	159	Cu.Yds.	Class "E" Concrete, Footings.		52	107	
S-4	142,001	Lbs.	Reinforcing Steel	97,035	8,284	36,682	
S-7	328,600	Lbs.	Structural Steel	328,600			
S-8	328,600	Lbs.	Field Painting of Structural Steel. X	328,600			
S-14	853	Lin.Ft.	Railing (Aluminum Rail and Supports, Concrete Parapet.)				853
S-29	20	Cu.Yds.	Porpus Backfill			20	
I-10	288	Sq.Yds.	Crushed Aggregate Slope Protection				288
S-16	Lump	Sum	First Test Pile				Lump
S-18	408	Lin.Ft.	Steel Piles, 12BP53		408		

* As per plan.

REPLACEMENT BARS

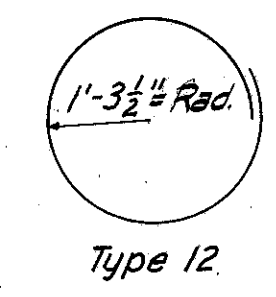
MARK	NO.	SIZE	LENGTH	TYPE	WEIGHT
RE 901	1	9	6'-10"	Str.	
RE 802	1	8	6'-6"	Str.	
RE 603	3	6	5'-11"	Str.	
RE 504	2	5	5'-7"	Str.	
RE 405	1	4	5'-3"	Str.	
RE 406	1	1/2" φ	5'-3"	12	

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-4.02 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-I-0002
UNDER WHITE ROAD

LAKE CO. STA. 1+21.89

Designed	Drawn	Traced	Checked	Reviewed-Date	Revised
G.S.W.	B.C.W.	W.A.V. B.C.W. A.Y.D.	J.V.W. J.M.B.	HGH-12-30-58	4-19-60