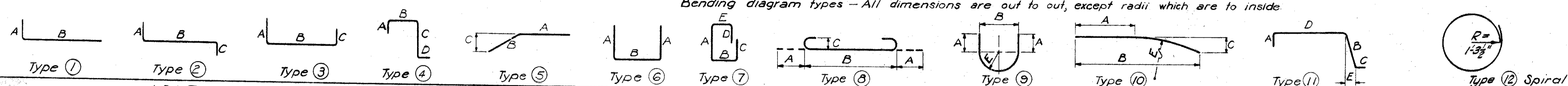


REINFORCING STEEL BAR SCHEDULE

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 LBS.	
A601	64	6	16'-0"	7	6'-6"	1'-5"	5'-0"	2'-11"	10"	1538	
A602	76	6	9'-7"	1	4'-5"	5'-4"				1094	
A503	14	5	10'-5"	5tr.						153	
A504	6	5	11'-6"	5tr.						72	
A505	76	5	2'-4"	5tr.						185	
A506	28	5	38'-8"	5tr.						1129	
A507	60	5	3'-2"	6	7 1/2"	2'-2"				198	
A508	76	5	3'-1"	5tr.						244	
A509	16	5	21'-3"	5tr.						355	
A510	26	5	10'-5"	6	4'-9"	1'-2"				285	
A511	20	5	4'-9"	5tr.						99	
A512	64	5	8'-1"	6	2'-7"	3'-2"				540	
A513	24	5	6'-0"	5tr.						150	
A514	24	5	8'-9"	5tr.						219	
A515	32	5	4'-1"	5tr.						136	
A516	8	5	7'-1"	5tr.						59	
A517	8	5	10'-0"	5tr.						83	
A518	32	5	3'-6"	5tr.						117	
A519	8	5	8'-4"	5	4'-7"	3'-10"	1'-6"			70	
A520	24	5	15'-1"	5tr.						378	
A521	8	5	3'-10"	5tr.						32	
A522	8	5	4'-5"	5tr.						37	
A523	48	5	7'-10"	5tr.						392	
A524	4	5	10'-7"	5tr.						44	
A525	22	5	4'-5"	11	7 1/2"	1'-3"	0"	2'-10"	3"	101	
A526	8	5	4'-2"	11	7 1/2"	1'-3"	0"	2'-7"	3"	35	
A527	24	5	2'-10" to 4'-1"	11	7 1/2"	1'-3"	0"	2'-4"	3"	87	
A528	22	5	3'-4"	1	7 1/2"	2'-10"				76	
A529	8	5	3'-1"	1	7 1/2"	2'-7"				26	
A530	24	5	3'-0" to 1'-9"	1	7 1/2"	2'-6"				59	
A531	4	5	2'-6"	11	7 1/2"	1'-3"	0"	11"	3"	10	
A532	4	5	1'-5"	1	7 1/2"	11"				6	
A533	4	5	2'-1"	11	7 1/2"	1'-3"	0"	6"	3"	9	
A534	4	5	1'-0"	1	7 1/2"	6"				4	
A535	4	5	14'-7"	10	2'-8"	14'-4"	2'-5"	29'-8 1/2"		61	
A536	4	5	16'-1"	10	4'-2"	15'-10"	2'-5"	29'-8 1/2"		67	
A537	4	5	14'-1"	5tr.						59	
A438	56	4	3'-3"	1	6 1/2"	2'-10"				122	
A439	56	4	4'-2"	4	1'-4"	8"	2'-0"	6 1/2"		136	
R440	16	4	13'-7"	5tr.						(included with railing for payment)	
										Total Weight	8,487

* 4 Sets at 6 each
Vary by 3"

REPLACEMENT BARS				
MARK	NO.	SIZE	LENGTH	WEIGHT
RE1101	2	11	7'-6"	5tr.
RE1002	1	10	10'-4"	5tr.
RE703	3	7	6'-3"	5tr.
RE604	4	6	5'-11"	5tr.
RE505	1	5	5'-7"	5tr.
RE406	1	4	5'-3"	5tr.
RE407	1	1/2"	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 5-4.02 need not be furnished and replacement bars will not be required.

* Wrought Iron Water Line: The Lump Sum bid for Item Special "B" W.I. water line (Sec. M-6.10.54), as per plan shall include the 6" W.I. pipe, couplings, AS-bands, roller supports, insulation, structural steel supports, and miscellaneous hardware, and all labor necessary for proper installation.

SUPERSTRUCTURE											
MARK	TOTAL	SIZE	LENGTH	TYPE	A	B	C	D	E	WEIGHT LBS.	
S701	554	7	36'-0"	5tr.						4,076	
S702	32	7	6'-10" to 33'-9"	5tr.	Each vary by 1'-9 1/2"					1,327	
S703	6	7	6'-6"	5tr.						80	
S604	554	6	36'-0"	5tr.						2,956	
S605	32	6	6'-10" to 33'-9"	5tr.	Each vary by 1'-9 1/2"					975	
S606	6	6	6'-6"	5tr.						59	
S607	885	6	30'-5"	5tr.						4,043	
S608	120	6	32'-0"	5tr.						5,768	
S509	860	5	4'-11"	11	7 1/2"	1'-3"	7 1/2"	2'-10"	3"	4,410	
S410	860	4	3'-3"	1	6 1/2"	2'-10"				1,867	
S411	860	4	4'-2"	4	14'-4"	8"	2'-0"	6 1/2"		2,394	
R412	184	4	17'-2"	5tr.						(Included with railing for payment)	
R413	16	4	13'-11"	5tr.						(Included with railing for payment)	
										Total Weight	128,034

Additional Estimated Quantities due to Increase in Vertical Clearance.

ESTIMATED QUANTITIES						
ITEM	TOTAL	UNIT	DESCRIPTION	SUPERSTR.	ABUTS.	PIERS
E-2	642	Cu. Yd.	Unclassified Excavation		182	460
E-2	Lump	Sum	Cofferdams, Cribbs & Sheeting			Lump Sum
S-1	506	Cu. Yd.	Class "C" Concrete, Superstructure	506		
S-1	141	Cu. Yd.	Class "C" Concrete, Pier Caps & Columns			141
S-1	81	Cu. Yd.	Class "E" Concrete, Abutments above Footings		81	
S-1	200	Cu. Yd.	Class "E" Concrete, Footings		65	135
S-4	192,797	Lbs.	Reinforcing Steel	128,034	8,487	56,216
S-7	504,000	Lbs.	Structural Steel	504,000		
S-8	504,000	Lbs.	Field Painting of Structural Steel	504,000		
S-14	916	Lin. Ft.	Railing (Aluminum Rail & Supports, Concrete Parapet)			916
S-16	Lump	Sum	First Test Pile			Lump Sum
S-18	4275	Lin. Ft.	Steel Piles, 12BP53		1440	2835
S-29	26	Cu. Yd.	Porous Backfill		26	
I-10	573	Sq. Yd.	Crushed Aggregate Slope Protection			573
Special	Lump	Sum	"B" W.I. water line (Sec. M-6.10.54), as per plan.			Lump

PIERS										
MARK	TOTAL	SIZE	LENGTH	TYPE	A	B	C	D	E	WEIGHT LBS.
P1101	10	11	39'-10"	6	3'-4"	34'-6"				2,116
P1102	5	11	40'-6"	6	3'-1"	35'-0"				1,076
P1103	10	11	38'-0"	6	3'-1"	32'-6"				2,019
P1104	10	11	18'-0"	5tr.						956
P1105	36	11	17'-6"	5tr.						3,35
P1106	36	11	13'-7"	5tr.						3,766
P1107	45	11	23'-0"	5tr.						5,699
P1108	36	11	19'-6"	5tr.						3,698
P1109	36	11	21'-10"	5tr.						6,176
P1110	189	11	7'-2"	1	6'-0"	1'-6 1/2"				7,196
P1111	40	10	35'-4"	8	1'-5"	32'-6"	1'-0 1/2"			6,082
P712	420	7	10'-6"	8	10"	8'-8"	6 1/2"			8,871
P513	10	5	3'-2"	6	7 1/2"	2'-2"				33
P514	10	5	2'-9"	6	7 1/2"	1'-9"				29
P515	180	5	7'-7"	6	2'-7"	2'-8"				1,624
P516	10	5	32'-6"	5tr.						339
P517	130	5	3'-8"	6	7 1/2"	2'-8"				697
P518	40	5	8'-4"	9	2'-3"	2'-5"		1'-2"		348

SPIRAL BARS								
MARK	TOTAL	SIZE	LENGTH	PITCH	No. of Turns	Core Dia.	WEIGHT LBS.	
SPA01	3	1/2"	14'-3"	4 1/2"	41	32"	805	
SPA02	6	1/2"	16'-5"	4 1/2"	47	32"	1,846	
SPA03	3	1/2"	19'-0"	4 1/2"	56	32"	1,102	
SPA04	3	1/2"	18'-9"	4 1/2"	53	32"	1,043	
							Total Weight	56,216

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 5-4.
If 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.

This sheet supersedes sheet 304. 3-21-60.

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 - 0608
UNDER KIRTLAND ROAD

LAKE COUNTY				STA. 328 + 57.43	
Designed	Drawn	Traced	Checked	Reviewed-Date	Revised
G.S.W.	E.F.T.	E.F.T.	G.S.W.	3-14-60	3-27-59
			D.E.B.	W.A.B. 4-55	3-30-60