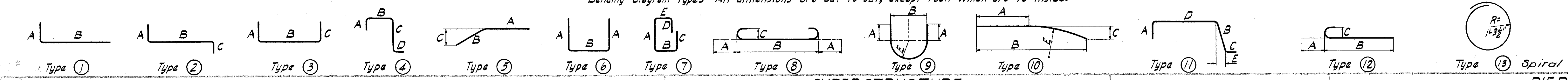


REINFORCING STEEL BAR SCHEDULE

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	148	6	9'-11"	1	4'-8"	5'-5"				2,204
A602	152	6	14'-6"	7	5'-7"	1'-5"	4'-5"	2'-9"	11"	3,310
A503	24	5	28'-1"	5tr.						703
A504	6	5	15'-4"	5tr.						96
A505	4	5	13'-0"	5tr.						54
A506	10	5	12'-11"	5tr.						135
A507	60	5	8'-0"	6	2'-7"	3'-2"				501
A508	46	5	11'-4"	6	5'-3"	1'-2"				544
A509	146	5	3'-4"	5tr.						508
A510	154	5	2'-4"	5tr.						375
A511	84	5	27'-1"	5tr.						2,373
A512	96	5	3'-5"	6	7'-8"	2'-5"				342
A513	16	5	5'-3"	5tr.						88
A514	16	5	13'-0"	5tr.						217
A515	16	5	5'-4"	5tr.						89
A516	4	5	9'-10"	5tr.						41
A517	24	5	15'-10"	5tr.						396
A518	14	5	5'-4"	5tr.						78
A519	40	5	7'-2"	5tr.						299
A520	8	5	4'-2"	5tr.						35
A521	8	5	3'-10"	5tr.						32
A522	40	5	3'-6"	5tr.						146
A523	8	5	6'-8"	5	3'-10"	3'-0"	10"			56
A524	12	5	11'-6"	5tr.						144
A525	12	5	3'-11"	5tr.						49
A526	4	5	9'-5"	5tr.						39
A527	14	5	5'-4"	5tr.						78
A528	40	5	7'-0"	5tr.						292
A529	4	5	15'-4"	5tr.						64
A530	4	5	16'-8"	5tr.						70
A531	4	5	15'-2"	5tr.						63
A532	22	5	3'-2"	11	7'-8"	1'-3"	0"	1'-7"	3"	73
A533	22	5	2'-4"	1	7'-8"	1'-10"				54
A534	12	5	3'-1"	11	7'-8"	1'-3"	0"	1'-6"	3"	39
A535	12	5	2'-3"	1	7'-8"	1'-9"				28
A536	12	5	2'-11"	11	7'-8"	1'-3"	0"	1'-4"	3"	37
A537	12	5	2'-1"	1	7'-8"	1'-7"				26
A538	8	5	2'-8"	11	7'-8"	1'-3"	0"	1'-1"	3"	22
A539	8	5	1'-10"	1	7'-8"	1'-4"				15
A540	8	5	2'-4"	11	7'-8"	1'-3"	0"	9"	3"	19
A541	8	5	1'-6"	1	7'-8"	1'-0"				13
A542	4	5	2'-1"	11	7'-8"	1'-3"	0"	5"	3"	8
A543	4	5	1'-2"	1	7'-8"	8"				5
A544	2	5	2'-7"	3	7'-8"	1'-8"	1'-4"			5
A545	2	5	1'-6"	1	7'-8"	1'-0"				3
A446	64	4	3'-1"	1	6'-2"	2'-8"				132
A447	64	4	4'-2"	4	1'-4"	8"	2'-0"	6'-2"		178
R448	16	4	14'-7"	Str.	(Included with railing for payment)					
Total Weight										140,78

REPLACEMENT BARS					
MARK	NO.	SIZE	LENGTH	TYPE	Weight LBS.
RE1101	1	11	7'-6"	5tr.	
RE1002	2	10	7'-2"	5tr.	
RE703	2	7	6'-3"	5tr.	
RE604	4	6	5'-11"	5tr.	
RE505	1	5	5'-7"	5tr.	
RE406	1	4	5'-3"	5tr.	
RE407	1	3/8	5'-3"	13	

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.

SUPERSTRUCTURE										
MARK	TOTAL	SIZE	LENGTH	TYPE	A	B	C	D	E	WEIGHT LBS.
S701	256	7	30'-10"	5tr.						16,134
S702	194	7	27'-1"	5tr.						10,740
S703	62	7	5'-10" to 25'-10"	5tr.	each vary by 8"					2,007
S704	84	7	6'-5" to 33'-9"	5tr.	each vary by 8"					3,448
S705	12	7	6'-0"	5tr.						147
S606	256	6	30'-8"	5tr.						11,792
S607	194	6	26'-11"	5tr.						7,843
S608	62	6	5'-9" to 25'-8"	5tr.	each vary by 8"					1,463
S609	84	6	6'-5" to 33'-9"	5tr.	each vary by 8"					2,534
S610	12	6	6'-0"	5tr.						108
S611	540	6	32'-2"	5tr.						26,090
S612	74	6	28'-0"	5tr.						3,112
S513	368	5	3'-11"	11	7'-8"	1'-3"	7'-8"	1'-10"	3"	2,165
S414	368	4	3'-3"	1	6'-2"	2'-10"				799
S415	368	4	4'-2"	4	1'-4"	8"	2'-0"	6'-2"		1,024
R416	88	4	14'-3"	5tr.	(Included with railing for payment)					
R417	16	4	11'-7"	5tr.	(Included with railing for payment)					
Total Weight										89,406

PIERS										
MARK	TOTAL	SIZE	LENGTH	TYPE	A	B	C	D	E	WEIGHT LBS.
P1101	8	11	32'-6"	1	3'-1"	29'-9"				1,381
P1102	8	11	33'-9"	1	3'-1"	31'-0"				1,435
P1103	4	11	33'-10"	1	3'-1"	31'-1"				719
P1104	12	11	10'-0"	5tr.						638
P1105	10	11	20'-8"	5tr.						1,098
P1006	8	10	22'-2"	12	1'-5"	20'-9"	1'-0 1/2"			763
P1007	20	10	25'-4"	12	1'-5"	23'-11"	1'-0 1/2"			2,180
P1008	10	10	31'-6"	5tr.						1,355
P1009	60	10	31'-4"	5tr.						8,090
P1010	60	10	28'-0"	5tr.						7,229
P1011	120	10	6'-10"	1	1'-4 1/2"	5'-9"				3,528
P612	80	6	8'-0"	8	8"	6'-8"	6"			961
P613	80	6	7'-0"	8	8"	5'-8"	6"			841
P514	12	5	25'-5"	5tr.						318
P515	16	5	8'-2"	9	2'-3"	2'-5"		1'-2"		136
P516	88	5	3'-8"	6	7'-8"	2'-8"				337
P517	184	5	7'-3"	6	2'-5"	2'-8"				1,391
P518	4	5	3'-2"	6	7'-8"	2'-2"				13
P519	4	5	2'-9"	6	7'-8"	1'-9"				11
Total Weight										37,258

SPIRAL BARS							
MARK	TOTAL	SIZE	LENGTH	PITCH	NO. OF TURNS	CORE DIA.	WEIGHT LBS.
SP401	5	1/2"	24'-8"	4 1/2"	69	32"	2,268
SP402	5	1/2"	28'-0"	4 1/2"	78	32"	2,566
Total Weight							37,258

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.
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.

ESTIMATED QUANTITIES							
ITEM	TOTAL	UNIT	DESCRIPTION	SUPERSTR.	ABUTS.	PIERS	GENERAL
E-2	631	Cu. Yd.	Unclassified Excavation		348	283	
E-2	Lump	Sum	Cofferdams, Crib and Sheeting				Lump Sum
S-1	316	Cu. Yd.	Class "C" Concrete, Superstructure	316			
S-1	133	Cu. Yd.	Class "C" Concrete, Pier Caps and columns			133	
S-1	138	Cu. Yd.	Class "E" Concrete, Abutments above footing		138		
S-1	170	Cu. Yd.	Class "E" Concrete, Footings		123	47	
S-4	14,074	Lbs.	Reinforcing Steel	89,406	14,078	37,258	
S-7	301,500	Lbs.	Structural Steel	301,500			
S-8	301,500	Lbs.	Field Painting of Structural Steel	301,500			
S-14	430	Lin. Ft.	Railing (Aluminum Rail and Supports, Concrete Parapet)				430
S-18	1,320	Lin. Ft.	Steel Piles, 12 BP53		6320		
S-29	48	Cu. Yd.	Porous Backfill		48		
I-10	774	Sp. Yd.	Crushed Aggregate Slope Protection				774
S-127	1	Ea.	Bridge Delineator				1

The FIRST TEST PILE, Item S-16 in the Estimated Quantities for LAK-0426 (Northbound), may be driven at either LAK-0426 (Northbound) or LAK-1-0426 (Southbound).

MICHAEL BAKER JR., CONSULTING ENGINEERS
ROCHESTER, PENNSYLVANIA

REINFORCING STEEL LIST & ESTIMATED QUANTITIES

SOUTH BOUND
BRIDGE NO. LAK-1-0426
OVER STATE ROUTE NO. 174

LAKE COUNTY
SB. STA. 235 + 38.42
TO STA. 237 + 26.78

Designed	Drawn	Traced	Checked	Reviewed-Date	Revised
E.E.W.	E.F.T.	E.F.T.	D.E.B. E.E.W.	W.R.B. 4-58	

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