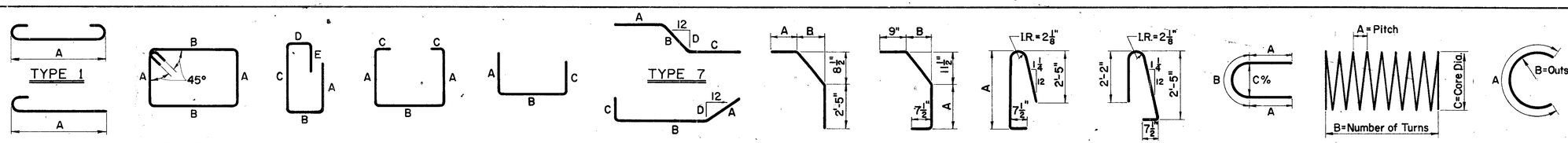

FED. RD. DIVISION	STATE	PROJECT	
5	OHIO		

17 / 19

LAKE COUNTY
LAK-2-5.30

LEGEND

R.Rt. = Rear Right
R.Lt. = Rear Left
C.Rt. = Center Right
C.Lt. = Center Left
F.Rt. = Forward Right
F.Lt. = Forward Left
Rt.Br. = Right Bridge
Lt.Br. = Left Bridge
Fwd. = Forward

ABUTMENTS

MARK	NO.	LENGTH	WEIGHT	TYPE	A	B	C	D	E	N.Br.	S.Br.
A801	144	6'-4"	2,435	7	1'-6"	3'-4"	1'-6"			81	63
A601	215	6'-11"	2,234	6	3'-2"	11"	3'-2"			121	94
A602	215	7'-3"	2,341	6	3'-1"	1'-5"	3'-1"			121	94
A604	16	3'-7"	86	9	7"	2"				8	8
A605	4	3'-7"	22	9	7"	3"				2	2
A606	4	3'-8"	22	9	8"	4"				2	2
A607	4	3'-8"	22	9	8"	5"				2	2
A608	40	3'-9"	225	9	9"	6"				20	20
A501	10	30'-0"	313	STR.							10
A502	4	26'-0"	108								4
A503	6	27'-3"	171								6
A504	10	36'-2"	377							10	
A505	4	33'-4"	139							4	
A506	6	34'-7"	216							6	
A507	10	26'-9"	279								10
A508	4	27'-6"	115								4
A509	6	28'-9"	180								6
A510	10	30'-9"	321							10	
A511	7	36'-10"	269							7	
A512	3	38'-0"	119	STR.						3	
A513	24	5'-0"	125	6	11"	3'-5"	11"			12	12
A514	20	3'-8"	76	7	2'-9"	1'-0"	—	20¾"		10	10
A515	20	5'-2"	108	6	1'-10"	3'-6"	—			10	10
A516	24	4'-0"	100	7	2'-6"	1'-7"	—	20¾"		12	12
A517	44	5'-6"	252	STR.						22	22
A518	28	9'-5"	275	6	4'-3"	1'-2"	4'-3"			14	14
A519	32	9'-8"	323	STR.						16	16
A520	32	4'-4"	145							16	16
A521	64	7'-8"	512							32	32
A522	28	4'-7"	134							14	14
A523	40	5'-6"	230	STR.						20	20
A524	32	2'-8"	89	2	2'-1"					16	16
A525	36	5'-3"	197	12						18	18
A526	32	7'-8"	256	STR.						16	16
										6985	5831
		TOTAL	12,816								

SUPERSTRUCTURE

MARK	NO.	LENGTH	WEIGHT	TYPE	A	B	C	N.Br.	S.Br.
S601 *	367	26'-4"	14,516	STR.				367	
S602 *	I SERIES OF 24	26'-3" TO 3'-7"	538		11 7/8" INCREMENTS			SERIES	
S603 *	I SERIES OF 21	26'-5" TO 6'-3"	515		12 1/8" INCREMENTS			SERIES	
S604 *	14	5'-0"	105					10	4
S605 *	I SERIES OF 25	29'-4" TO 6'-4"	670		11 1/2" INCREMENTS			SERIES	
S606 *	365	29'-1"	15,944					365	
S607 *	I SERIES OF 27	28'-0" TO 2'-9"	624		11 5/8" INCREMENTS			SERIES	
S608 *	360	23'-0"	12,437						360
S609 *	I SERIES OF 16	20'-7" TO 3'-7"	327		12" INCREMENTS				SERIES
S610 *	I SERIES OF 17	22'-4" TO 6'-0"	362		12 1/4" INCREMENTS				SERIES
S611 *	361	22'-10"	12,381						361
S612 *	I SERIES OF 16	22'-0" TO 9'-0"	326		12" INCREMENTS				SERIES
S613 *	I SERIES OF 18	20'-5" TO 3'-1"	318		12 1/4" INCREMENTS				SERIES
S614 *	367	4'-9"	2,618					367	
S615 *	365	3'-11"	2,147					365	
S616 *	5	7'-0"	53	STR.					5
S621	367	26'-4"	14,516	STR.				367	
S622	I SERIES OF 24	26'-3" TO 3'-7"	538		11 7/8" INCREMENTS			SERIES	
S623	I SERIES OF 21	26'-5" TO 6'-3"	515		12 1/8" INCREMENTS			SERIES	
S624	14	5'-0"	105					10	4
S625	I SERIES OF 25	29'-4" TO 6'-4"	670		11 1/2" INCREMENTS			SERIES	
S626	365	29'-1"	15,944					365	
S627	I SERIES OF 27	28'-0" TO 2'-9"	624		11 5/8" INCREMENTS			SERIES	
S628	360	27'-0"	14,599						360
S629	I SERIES OF 16	20'-7" TO 3'-7"	327		12" INCREMENTS				SERIES
S630	I SERIES OF 17	22'-4" TO 6'-0"	362		12 1/4" INCREMENTS				SERIES
S631	361	18'-10"	10,212						361
S632	I SERIES OF 14	22'-0" TO 9'-0"	326		12" INCREMENTS				SERIES
S633	I SERIES OF 18	20'-5" TO 3'-1"	318		12 1/4" INCREMENTS				SERIES
S634	367	4'-9"	2,618					367	
S635	365	3'-11"	2,147					365	
S636	5	7'-0"	53	STR.					5
S501	955	30'-0"	29,882	STR.				552	403
S502	136	24'-4"	3,452	STR.				79	57
S503 *	640	5'-3"	3,504	12				320	320
S504 *	596	2'-10"	1,761	10	11"	6"		298	298
S505	596	1'-10"	1,140	6	7 1/2"	10"	7 1/2"	298	298
S506	596	2'-0"	1,243	6	7 1/2"	1'-6"		298	298
S507 *	192	13'-6"	2,703	STR.				96	96
S508 *	128	6'-6"	868	STR.				64	64
S401 *	907	30'-0"	18,176	STR.				552	355
S402 *	129	22'-0"	1,896	STR.				79	50
S403 *	251	34'-0"	5,701	STR.				153	98

* DENOTES EPOXY COATED BARS

* EPOXY COATED BARS	98,490	57,763	40,727
REGULAR BARS	99,591	58,116	41,475
TOTAL	198,081		

SUPERSTRUCTURE

MARK	NO.	LENGTH	WEIGHT	TYPE	A	B	C	D	E	Rt.Br.	Lt.Br.

SPIRAL REINFORCING BARS: The "Length" shown in the steel list for spiral bars is the distance from the top of the footing to the bottom of the pier cap. The "Number of Turns" shown is the "Length" divided by the "Pitch", plus three turns (total number of closed coils), expressed as the nearest whole number with 1/2 closed coils provided at the ends of each spiral unit. Four steel channel, tee or angle spacers weighing approximately 0.80 pounds per lineal foot of spacers 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 0.80 pounds per lineal foot, will be paid for as reinforcing steel and is included in the tabulated quantity of spiral bars.

REINFORCING STEEL SAMPLES: Refer to CMS Sections 106.03, 700, 709.01 through 709.05 and 709.08. Sufficient additional reinforcing steel shall be provided for sampling. Random samples shall be replaced in the structures by the additional steel, 8 / 8 spliced in accordance with 509.08.

FRANKLIN CONSULTANTS INC.
Consulting Engineers
COLUMBUS, OHIO

REINFORCING STEEL

BRIDGE No. LAK-2-0530
S.R. 2 OVER CHAGRIN RIVER
LAKE COUNTY S.R. 2

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
SM	HM	GKS	HM	JT	1/16-80	