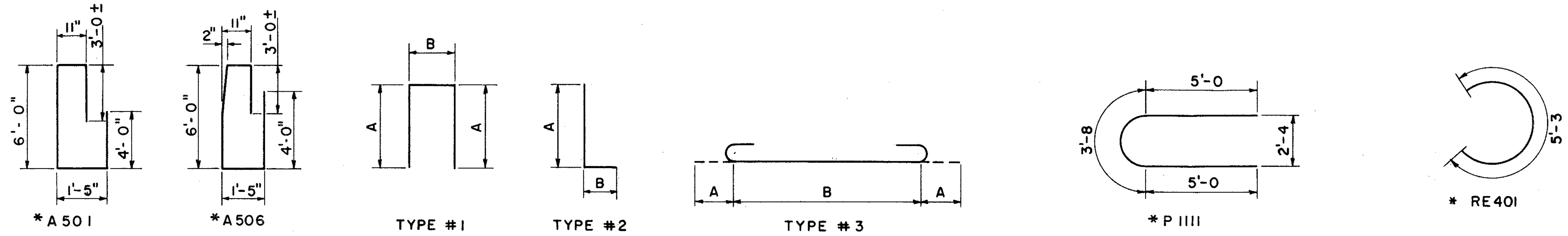
MICROFILMED
SEP 23 1986

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	F-U-329 (15)	

LAKE COUNTY
SEC. LAK-2-4.42



REINFORCING STEEL LIST

ABUTMENTS

MARK	ABUT. #1	ABUT. #2	TOTAL	LENGTH	WEIGHT	TYPE	A	B	VARIES BY	No. of Ea.
F 501	88	88	176	9'-8"	1775	1	3'-8"	2'-7"		
F 502	24	24	48	7'-6"	376	1	2'-7"	2'-7"		
F 503	76	76	152	6'-5"	1018	1	2'-9"	1'-2"		
F 601	122	122	244	6'-4"	2321	2	5'-6"	1'-0"		
F 602	9	17	26	15'-10"	619	1	7'-6"	1'-2"		
F 603	8	-	8	17'-10"	215	1	8'-6"	1'-2"		
F 901	24	24	48	29'-6"	4815	Str.				
F 902	8	8	16	11'-6"	626	Str.				
F 903	8	8	16	12'-0"	653	Str.				
A 401	16	16	32	4'-0"	86	Str.				
A 402	4	4	8	7'-3"	39	Str.				
A 501		81	81	14'-10"	1252	*				
A 502	50	50	100	6'-2"	644	1	1'-6"	3'-5"		
A 503	14	14	28	23'-0"	672	Str.				
A 504	14	14	28	36'-0"	1051	Str.				
A 505	14	14	28	24'-0"	701	Str.				
A 506	81		81	14'-10"	1252	*				
W 501	4	8	12	7'-0"	88	Str.				
W 502	4	-	4	8'-0"	33	Str.				
W 503	7	7	14	9'-9"	143	Str.				
W 504	7	7	14	10'-3"	150	Str.				
W 505	1	1	2	7'-6"	16	Str.				
W 506	1	1	2	8'-3"	17	Str.				
W 507	6	6	12	7'-7"	95	1	3'-8"	6"		
W 508	32	32	64	5'-0"	334	Str.				
W 509	4	4	8	14'-9"	123	Str.				
W 510	4	4	8	15'-3"	127	Str.				
W 511	4	4	8	4'-6"	38	Str.				
W 512	10	10	20	3'-6"	73	Str.				
W 513	10	10	20	2'-9"	57	Str.				
W 514	6	6	12	14'-9"	185	Str.				
W 515	6	6	12	15'-3"	191	Str.				
W 516	6	6	12	6'-9"	85	1	2'-10"	1'-4"		
W 517	14	14	28	6'-9" to 3'-1"	144	1	2'-10" to 1'-0"	1'-4"	3 11/16	2
W 518	20	20	40	5'-3"	219	1	2'-6"	6"		
				TOTAL	20,235					

SUPERSTRUCTURE

MARK	No.	LENGTH	WEIGHT	TYPE	A	B	VARIES BY	No. of Ea.
S 401	20	36'-0"	481	Str.				
S 402	50	36'-9"	1228	Str.				
S 501	352	3'-7"	1314	1	6"	2'-10"		
S 502	352	4'7"	1680	1	2'-2"	6"		
S 503	704	1'-7"	1160	2	1'-3"	6"		
S 504	20	36'-0"	751	Str.				
S 505	50	36'-9"	1917	Str.				
S 506	736	1'-4"	1021	2	1'-0"	6"		
S 601	264	35'-9"	14,175	Str.				
S 602	660	36'-9"	36,431	Str.				
S 603	686	37'-9"	38,897	Str.				
S 604	36	35'-9" to 6'-0"	1130	Str.			1'-9"	2
S 605	38	37'-6" to 6'-0"	1244	Str.			1'-9"	2
S 606	216	30'-0"	9733	Str.				
S 607	736	6'4"	7000					
S 701	686	37'-9"	52,933	Str.				
S 702	36	35'-9" to 6'-0"	1537	Str.			1'-9"	2
S 703	32	5'-0"	327	Str.				
S 704	38	37'-6" to 6'-0"	1693	Str.			1'-9"	2
		TOTAL	174,652					

RAILING

MARK	No.	LENGTH	WEIGHT	TYPE	A	B	VARIES BY	No. of Ea.
R 401	16	13'-3"	Includes	Str.				
R 402	104	16'-3"	with	Str.				
R 403	8	13'-0"	Item S-14	Str.				
R 404	8	13'-9"	for	Str.				
			Payment.					

PIERS

MARK	PIER #1	PIER #2	PIER #3	TOTAL	LENGTH	WEIGHT	TYPE	A	B	VARIES BY	No. of Ea.
F 801	26	26	26	78	10'-8"	2222	3	1'-1"	8'-6"		
F 901	26	26	26	78	14'-0"	3713	3	1'-3"	11'-6"		
F 902	13	13	13	39	16'-0"	2122	3	1'-3"	13'-6"		
F 903	24	24	24	72	6'-10"	1673	2	6'-1"	1'-0"		
F 1001	52	52	52	156	14'-4"	9622	3	1'-5"	11'-6"		
F 1101	13	13	13	39	14'-8"	3039	3	1'-7"	11'-6"		
F 1102	64	64	64	192	7'-6"	7651	2	6'-10"	1'-0"		
P 501	4	4	4	12	34'-3"	429	Str.				
P 502	88	88	88	264	7'-5"	2,042	1	2'-6"	2'-8"		
P 901	12	-	-	12	17'-9"	724	Str.				
P 902	12	-	-	12	18'-6"	756	Str.				
P 903	-	12	-	12	18'-3"	745	Str.				
P 904	-	12	-	12	18'-9"	765	Str.				
P 905	-	-	12	12	18'-6"	755	Str.				
P 906	-	-	12	12	18'-10"	765	Str.				
P 1101	32	-	-	32	17'-9"	3018	Str.				
P 1102	32	-	-	32	18'-6"	3145	Str.				
P 1103	-	32	-	32	18'-3"	3103	Str.				
P 1104	-	32	-	32	18'-9"	3188	Str.				
P 1105	-	-	32	32	18'-6"	3145	Str.				
P 1106	-	-	32	32	18'-10"	3188	Str.				
P 1107	4	4	4	12	34'-6"	2200	Str.				
P 1108	4	4	4	12	35'-3"	2247	Str.				
P 1109	4	4	4	12	35'-6"	2263	Str.				
P 1110	4	4	4	12	10'-0"	638	Str.				
P 1111	8	8	8	24	13'-8"	1743	*				
P 1112	24	24	24	72	9'-1" to 10'-7"	3762	2	5'-10" to 7'-4"	3'-7"	9"	3
P 1113	12	12	12	36	30'-3"	5786	Str.				
					TOTAL	74,449					

SPIRALS

MARK	No.	SIZE	LENGTH	CORE DIA.	PITCH	No. of TURNS	WEIGHT
SP 401	3	½ φ	14'-1"	32"	4 ½"	41	803
SP 402	3	½ φ	14'-10"	32"	4 ½"	43	842
SP 403	3	½ φ	14'-9"	32"	4 ½"	43	841
SP 404	3	½ φ	15'-3"	32"	4 ½"	44	860
SP 405	3	½ φ	15'-0"	32"	4 ½"	4	854
SP 406	3	½ φ	15'-2"	32"	4 ½"	4	874
						GROSS TOTAL	79,523

REPLACEMENT BARS

MARK	No.	LENGTH	WEIGHT	TYPE
RE 400	1	5'-3		Str.
RE 401	1	5'-3		*
RE 500	2	5'-7		Str.
RE 600	6	5'-11		Str.
RE 700	3	6'-3		Str.
RE 800	1	6'-6		Str.
RE 900	1	6'-10		Str.
RE 1000	1	7'-3		Str.
RE 1100	3	7'-7		Str.

NOTES:

All dimensions are out to out of the bar.

Bar Size is indicated in the bar mark. The first digit where three digits are used, and the first two where four are used, indicate the bar size number. For example, A700 is a No. 7 size bar & A1014 is a No. 10 size.

The length shown in the bar list for the spiral bars is the distance from the top of the footing to the bottom of the cap.

The number of turns shown is the length divided by the pitch, plus 3 turns (total number of closed coils) expressed as the nearest whole number.

Spiral bars shall not have deformations but shall in other respects conform to Item S-4.

1½ closed coils shall be provided at the ends of each spiral unit.

Four steel channel, tee or angle spacers, weighing approximately 0.68 lbs. per lin. ft., shall be provided for each spiral unit. They shall be equally spaced along the periphery of the coil. The number of pounds of 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.

Replacement Bars: If reinforcing bars are fabricated from stock which has previously been tested and approved by the Ohio Highways Testing Laboratory, test samples as provided in Sec. S-4.02 need not be furnished and replacement bars will not be required.

PREPARED BY
CAPITOL ENGINEERING ASSOCIATES, DILLSBURG, PA.
FOR
STATE OF OHIO
DEPARTMENT OF HIGHWAYS
DIVISION OF DESIGN AND CONSTRUCTION
BUREAU OF BRIDGES

REINFORCING BAR LIST
BRIDGE NO. LAK-2-0543
RELOC. S.R.2 UNDER LOST NATION RD.
LAKE COUNTY
STA. 184+69.00

DESIGNED	DRAWN	TRACED	CHECKED	REVISED DATE	REVISED