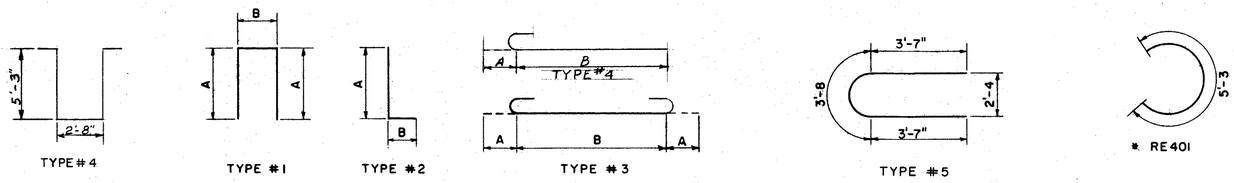
MICROFILMED
SEP 23 1986

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

LAKE COUNTY
SEC. LAK-2-4.42



REINFORCING STEEL LIST

(4) ABUTMENTS

MARK	N.B. ABUT. 1&3	S.B. ABUT. 2&4	TOTAL	LENGTH	WEIGHT	TYPE	A	B	VARIES BY	No. of Ea.
F501	200	200	400	7'-3"	3025	1	2'-6"	2'-6"		
F502	136	136	272	5'-11"	1679	1	2'-6"	1'-2"		
F601	58	58	116	10'-10"	1884	1	5'-0"	1'-2"		
F602	94	94	188	11'-3"	3177	1	5'-0"	1'-8"		
F801	16	16	32	14'-9"	1260	Str.				
F802	16	16	32	14'-6"	1239	Str.				
F803	16	16	32	30'-0"	2563	Str.				
F804	16	16	32	22'-6"	1922	Str.				
A501	20	20	40	30'-0"	1252	Str.				
A502	20	20	40	20'-0"	835	Str.				
A503	94	94	188	6'-6"	1275	1	2'-4"	1'-8"		
A504	8	8	16	4'-6"	75	Str.				
A505	8	8	16	10'-6"	175	Str.				
A506	24	24	48	7'-3"	363	1	3'-7"	5"		
W501	16	16	32	13'-3"	442	Str.				
W502	16	16	32	12'-11"	432	Str.				
W503	26	26	52	5'-6"	298	Str.				
W504	16	16	32	2'-6"	84	Str.				
W505	14	14	28	12'-0"	351	Str.				
W506	14	14	28	11'-10"	345	Str.				
W507	20	20	40	5'-11"	247	1	2'-3"	1'-8"		
W508	12	12	24	5'-6" to 5'-0"	131	1	2'-3"	1'-3" to 0'-5"	3"	8
W401	32	32	64	5'-3"	225	1	2'-6"	6"		
W402	8	8	16	12'-0"	128	Str.				
				TOTAL	23,407					

(2) SUPERSTRUCTURES

MARK	No.	LENGTH	WEIGHT	TYPE	A	B	VARIES BY	of Ea.
S401	544	2'-6"	909	1	5½"	1'-10"		
S402	80	30'-0"	1603	Str.				
S501	1088	2'-8"	3032	2	2-4"	5½"		
S502	544	4'-6"	2553	1	2'-2"	6"		
S503	40	31'-3"	1304	Str.				
S504	20	28'-3"	589	Str.				
S601	108	28'-11"	4692	Str.				
S602	54	17'-11"	1454	Str.				
S603	172	23'-3"	6007					
S604	172	27'-9"	7169	Str.				
S701	278	27'-9"	15,770	Str.				
S702	278	23'-3"	13,211					
S1101	228	50'-3"	60,871	Str.				
S1102	72	36'-0"	13,771	4	1'-7"	34'-6"		
S1103	72	31'-0"	11,859	4	1'-7"	29'-8"		
S1104	36	32'-6"	6216	Str.				
S1105	36	24'-3"	4638	Str.				
S1106	212	42'-0"	47,307	Str.				
S1107	104	24'-0"	13,261	Str.				
S1108	104	18'-9"	10,360	Str.				
S1109	40	30'-0"	6376	Str.				
		TOTAL	232,952					

RAILING

R401	32	10'-9"	Include	Str.	
R402	32	12'-0"	with	Str.	
R403	128	14'-6"	Item S-14	Str.	
			for Payment		

(4) PIERS

MARK	N.B. PIER 1&3	S.B. PIER 2&4	TOTAL	LENGTH	WEIGHT	TYPE	A	B	VARIES BY	No. of Ea.
F901	48	48	96	6'-7"	2149	2	5'-10"	1'-0"		
F1001	64	64	128	11'-4"	6,240	3	1'-5"	8'-6"		
F1002	88	88	176	14'-4"	10,852	3	1'-5"	11'-6"		
F1101	72	72	144	7'-4"	5610	2	6'-8"	1'-0"		
P501	70	70	140	13'-7"	1983	4	See Detail Above			
P502	20	20	40	21'-3"	887	Str.				
P901	48	—	48	18'-6"	3019	Str.				
P902	—	48	48	19'-3"	3142	Str.				
P903	16	16	32	22'-0"	2394	Str.				
P1101	72	—	72	18'-6"	7077	Str.				
P1102	—	72	72	19'-3"	7364	Str.				
P1103	8	8	16	10'-10"	921	5	See Detail Above			
P1104	8	8	16	51'-1"	4341	1	1'-6"	48'-9"		

SPIRALS

MARK	No.	SIZE	LENGTH	CORE DIA.	PITCH	No. of TURNS	WEIGHT
SP401	8	½ ϕ	12'-11"	32"	4½"	38	1981
SP402	8	½ ϕ	13'-10"	32"	4½"	40	2093
						TOTAL	60,053

REPLACEMENT BARS

MARK	No.	LENGTH	WEIGHT	TYPE
RE400	1	5'-3		Str.
RE401	1	5'-3		*
RE500	2	5'-7		Str.
RE600	2	5'-11		Str.
RE700	2	6'-3		Str.
RE800	1	6'-6		Str.
RE900	1	6'-10		Str.
RE1000	1	7'-3		Str.
RE1100	10	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.
- All Reinforcing Bars are identical for both structures except Pier column & Spiral Bars.

N.B. denotes North Bridge
- S.B. denotes South Bridge

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

ESTIMATED QUANTITES for (2) Structures

ITEM	TOTAL	UNIT	DESCRIPTION	SUPER.	PIER.	ABUT.	GEN.
E 2	880	Cu. Yds.	UNCLASSIFIED EXCAVATION		475	405	
S1	1000	Cu. Yds.	CLASS "C" CONCRETE, SUPERSTRUCTURE	1000			
S1	130	Cu. Yds.	CLASS "C" CONCRETE, PIER CAPS AND COLUMNS.		130		
S1	80	Cu. Yds.	CLASS "E" CONCRETE, ABUTMENTS, ABOVE FOOTINGS.			80	
S1	358	Cu. Yds.	CLASS "E" CONCRETE, FOOTINGS.		233	125	
S4	316,412	lbs.	REINFORCING STEEL.	232,952	60,053	23,407	
S14	660	Lin. Ft.	RAILING, ALUMINUM RAIL & SUPPORTS, CONCRETE PARAPETS.	580		80	
S16		Lump	FIRST TEST PILE.				Lump.
S18	3800	Lin. Ft.	STEEL PILES (12-BP-53)		2000	1800	
S29	40	Cu. Yds.	POROUS BACKFILL			40	
I10	760	Sq. Yds.	CRUSHED AGGREGATE SLOPE PROTECTION				760

PREPARED BY
CAPITOL ENGINEERING ASSOCIATES, DILLSBURG, PA.
FOR

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
DIVISION OF DESIGN AND CONSTRUCTION
BUREAU OF BRIDGES

REINFORCING BAR SCHEDULE
BRIDGE NO. LAK-2-0488
RELOC S.R.2 OVER ERIE ROAD
LAKE COUNTY
STA 155 + 36.34

DESIGNED	DRAWN	TRACED	CHECKED	REVISED	DATE	REVISED