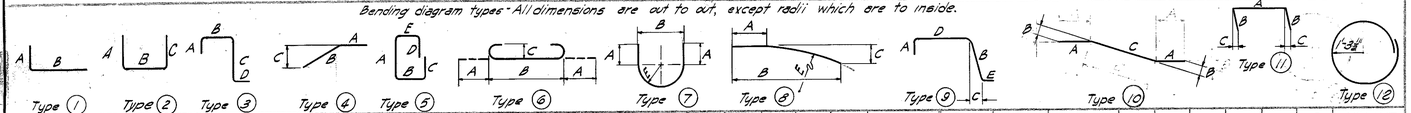
REINFORCING BAR SCHEDULE

Bending diagram Types - All dimensions are out to out, except radii which are to inside.



SUPERSTRUCTURE

MARK	TOTAL	LENGTH	TYPE	A	B	C	D	E	WEIGHT
S701	195	36'-1"	10	3'-0"	2⅜"	30'-1"			14,381
S702	15	32'-8"to7'-8"	4	★	3'-0"	1⅛"			618
S703	3	8'-0"	Str.						49
S704	11	32'-8"to8'-3"	4	✳	3'-0"	2⅜"			460
S705	3	6'-9"	4	3'-9"	3'-0"	2⅜"			41
S601	195	36'-1"	10	3'-0"	2⅜"	30'-1"			10,567
S602	15	32'-8"to7'-8"	4	★	3'-0"	1⅛"			454
S603	3	8'-0"	Str.						30
S604	11	32'-8"to8'-3"	4	✳	3'-0"	2⅜"			338
S605	3	6'-9"	4	3'-9"	3'-0"	2⅜"			30
S606	236	36'-3"	Str.						12,850
S607	48	22'-0"	Str.						1,586
S501	280	5'-0"	9	7⅞"	1'-3"	3"	2'-10"	7⅛	1460
S401	280	3'-0"	1	6¼"	2'-7"				561
S402	280	4'-3"	3	1'-4"	8"	2'-0"	6¼"		795
R403	56	15'-11"	Str.	(Included with railing for payment)					
R404	16	18'-11"	Str.						

★ "A" Varies 29'-8" to 4'-8" by 1'-9⅜".
✳ "A" Varies 29'-8" to 5'-3" by 2'-5¾".

PIERS

P501	52	3'-8"	2	7⅛"	2'-8"	7⅛"			199
P502	4	2'-7"	2	7⅛"	2'-1"	7⅛"			11
P503	4	1'-8"	2	7⅛"	1'-2"	7⅛"			7
P504	16	7'-0"	7	1'-7"	2'-4½"			1-⅛"	117
P505	4	31'-8"	Str.						132
P506	72	6'-9"	2	2'-2"	2'-8"	2'-2"			507
P701	96	8'-2"	6	10"	6'-6"	5"			1,603
P901	2	22'-0"	Str.						150
P902	12	12'-9"	Str.						520
P903	4	34'-2"	6	1'-3"	31'-8"	9"			465
P904	4	38'-3"	11	33'-5"	2'-9"	2"			520
P1001	4	38'-7"	11	33'-9"	2'-9"	2"			664
P1002	4	34'-6"	6	1'-5"	31'-8"	10"			594
P1003	12	29'-0"	Str.						1,497
P1004	12	23'-10"	Str.						1,231
P1005	12	27'-10"	Str.						1,437
P1006	12	22'-11"	Str.						1,183
P1007	12	26'-10"	Str.						1,386
P1008	12	22'-0"	Str.						1,136
P1009	4	37'-0"	11	32'-2"	2'-9"	2"			637
P1010	72	6'-10"	1	1'-4⅞"	5'-9"				2,117

SPIRAL BARS

MARK	TOTAL	LENGTH	SIZE	PITCH	NO. TURNS	CORE DIA.	WEIGHT
SP401	1	25'-9"	⅝" ø	4½"	72	32"	495
SP402	1	20'-9"	⅝" ø	4½"	58	32"	402
SP403	1	24'-9"	⅝" ø	4½"	69	32"	475
SP404	1	19'-10"	⅝" ø	4½"	56	32"	388
SP405	1	23'-8"	⅝" ø	4½"	66	32"	455
SP406	1	18'-10"	⅝" ø	4½"	53	32"	369
							18,697

ABUTMENT NO. 1

MARK	TOTAL	LENGTH	TYPE	A	B	C	D	E	WEIGHT
A601	34	13'-4"	5	5'-6"	1'-3"	4'-4"	2'-0"	9"	681
A602	4	6'-2"	1	9⅜"	5'-6"				37
A603	8	6'-9"	1	9⅜"	6'-1"				81
A604	8	7'-4"	1	9⅜"	6'-8"				88
A605	8	7'-11"	1	9⅜"	7'-3"				95
A606	6	8'-6"	1	9⅜"	7'-10"				77
A501	13	36'-9"	Str.						498
A502	3	2'-7"	Str.						8
A503	4	3'-2"	Str.						13
A504	4	3'-9"	Str.						16
A505	4	4'-4"	Str.						18
A506	3	4'-11"	Str.						15
A507	30	3'-2"	2	7⅛"	2'-2"	7⅛"			99
A508	6	7'-5"	6	7"	6'-3"	5¼"			46
A509	9	6'-2"	6	7"	5'-0"	5¼"			58
A510	66	9'-6"	2	2'-2"	5'-5"	2'-2"			654
A511	8	38'-10"	Str.						324
A512	10	10'-5"	Str.						109
A513	8	10'-5"	2	4'-9"	1'-2"	4'-9"			87
A514	28	7'-3"	2	2'-2"	3'-2"	2'-2"			212
A515	14	5'-3"	1	7⅛"	4'-9"				77
A516	6	8'-8"	Str.						54
A517	12	8'-6"	Str.						100
A518	12	3'-6"	Str.						44
A519	2	8'-3"	Str.						17
A520	2	8'-8"	Str.						18
A521	12	13'-2"	Str.						165
A522	12	8'-1"	2	3'-7"	1'-2"	3'-7"			101
A523	2	8'-11"	2	4'-0"	1'-2"	4'-0"			19
A524	14	7'-2"	Str.						105
A525	14	9'-7"	Str.						140
A526	4	5'-4"	Str.						22
A527	4	7'-9"	Str.						32
A528	4	6'-3"	4	4'-0"	2'-3"	10"			26
A529	1	8'-10"	Str.						9
A530	1	9'-4"	Str.						10
A531	2	14'-9"	8	9"	14'-5"	2'-4"		29-10"	31
A532	2	16'-0"	8	2'-0"	15'-8"	2'-4"		29-10"	33
A533	2	1'-11"	9	6"	1'-2"	2"	5"	0"	4
A534	2	10"	1	6"	5"				2
A535	2	2'-4"	9	6"	1'-2"	2"	10"	0"	5
A536	2	1'-3"	1	6"	10"				3
A537	12	2'-10"to4'-1"	9	6"	1'-2"	2"	13⅜26 ∓	0"	43
A538	12	1'-9"to3'-0"	1	6"	13⅜26 ∓				30
A539	4	4'-2"	9	6"	1'-2"	2"	2'-8"	0"	17
A540	4	3'-1"	1	6"	2'-8"				13
A541	8	4'-3"	9	6"	1'-2"	2"	2'-9"	0"	35
A542	8	3'-2"	1	6"	2'-9"				26
A543	2	12'-0"	Str.						25
A544	9	8'-0"	Str.						75
A545	6	6'-5"	Str.						40
A401	24	4'-5"	x 3	1'-2"	8"	2'-2"	6¼"		71
A402	24	3'-0"	1	6¼"	2'-7"				48
RA403	8	11'-8"	Str.	(Included with railing for payment)					
									4,662

ABUTMENT NO. 2

MARK	TOTAL	LENGTH	TYPE	A	B	C	D	E	WEIGHT
B601	35	13'-4"	5	5'-6"	1'-3"	4'-4"	2'-0"	9"	701
B602	4	7'-10"	1	9⅜"	7'-2"				47
B603	8	7'-5"	1	9⅜"	6'-9"				89
B604	8	7'-0"	1	9⅜"	6'-4"				84
B605	8	6'-7"	1	9⅜"	5'-11"				79
B606	7	6'-2"	1	9⅜"	5'-6"				65
B501	13	38'-3"	Str.						519
B502	3	2'-7"	Str.						8
B503	4	2'-11"	Str.						12
B504	4	3'-4"	Str.						14
B505	4	3'-9"	Str.						16
B506	4	4'-2"	Str.						17
B507	30	3'-2"	2	7⅛"	2'-2"	7⅛"			99
B508	14	7'-0"	6	7"	5'-10"	5¼"			102
B509	3	6'-6"	Str.						20
B510	12	8'-0"	Str.						100
B511	10	10'-1"	Str.						105
B512	68	9'-6"	2	2'-2"	5'-5"	2'-2"			674
B513	16	21'-2"	Str.						353
B514	8	10'-5"	2	4'-9"	1'-2"	4'-9"			87
B515	14	5'-3"	1	7⅞"	4'-9"				77
B516	28	7'-3"	2	2'-2"	3'-2"	2'-2"			212
B517	14	8'-8"	Str.						127
B518	16	8'-6"	Str.						142
B519	12	3'-6"	Str.						44
B520	4	7'-0"	Str.						29
B521	16	13'-1"	Str.						218
B522	14	8'-1"	2	3'-7"	1'-2"	3'-7"			118
B523	14	6'-11"	Str.						101
B524	2	1'-11"	9	6"	1'-2"	2"	5"	0"	4
B525	2	10"	1	6"	5"				2
B526	2	12'-0"	Str.						25
B527	1	8'-7"	Str.						9
B528	1	9'-4"	Str.						10
B529	2	13'-2"	8	8"	12'-8"	2'-4"		29-10"	27
B530	2	14'-3"	8	2'-0"	13'-9"	2'-4"		29-10"	30
B531	8	4'-3"	9	6"	1'-2"	2"	2'-9"	0"	35
B532	8	3'-2"	1	6"	2'-9"				26
B533	4	4'-2"	9	6"	1'-2"	2"	2'-8"	0"	17
B534	4	3'-1"	1	6"	2'-8"				13
B535	12	2'-10"to4'-1"	9	6"	1'-2"	2"	13⅜26 ∓	0"	43
B536	12	1'-8"to2'-11"	1	6"	13⅜26 ∓				29
B537	2	2'-4"	9	6"	1'-2"	2"	10"	0"	5
B538	2	1'-3"	1	6"	10"				3
B539	4	5'-4"	Str.						22
B401	24	3'-0"	1	6¼"	2'-7"				48
B402	24	4'-5"	3	1'-2"	8"	2'-2"	6¼"		71
RB403	8	11'-7"	Str.	(Included with railing for payment)					

∓ 4 Sets of 6, each bar varies by 3"

REPLACEMENT BARS

MARK	NO.	LENGTH	TYPE	WEIGHT
RE401	1	5'-3"	Str.	
RE502	1	5'-7"	Str.	
RE603	2	5'-11"	Str.	
RE704	1	6'-2"	Str.	
RE905	1	6'-10"	Str.	
RE1006	1	7'-2"	Str.	
RE407½"ø	1	5'-3"	12	

REPLACEMENT BARS

It 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 8-4.02 need not be furnished and replacement bars will not be required

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 6-4.

1½ 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 number 4 size bar and A1114 is a number 11 size bar.

MICROFILMED SEP 6 1965

FED. RD. DIVISION	STATE	PROJECT	TYPE FUNDS
2	OHIO	I-1103(18)	

CUYAHOGA & LAKE COUNTIES
CUY-1-15.91, LAK-1-0.00

Note: Sheet No. 429 omitted from plans

428
458

ESTIMATED QUANTITIES

ITEM	TOTAL	UNIT	DESCRIPTION	SUPERSTR.	ABUTS	PIERS	GENERAL		
E-2	403	Cu.Yds.	Unclassified Excavation		213	190			
E-2	Lump	Sum	Cofferdams, Cribs & Sheeting				Lump		
S-1	175	Cu.Yds.	Class "C" Concrete, Superstructure	175					
S-1	53	Cu.Yds.	Class "C" Concrete, Piers Above Footings			53			
S-1	79	Cu.Yds.	Class "E" Concrete, Abuts. Above Footings		79				
S-1	94	Cu.Yds.	Class "E" Concrete, Footings		61	33			
S-4	72,263	Lbs.	Reinforcing Steel	44,226	9,340	18,697			
S-7	115,500	Lbs.	Structural Steel	115,500					
S-8	115,500	Lbs.	Field Painting of Struct. Steel, as per plan	115,500					
S-14	329	Lin.Ft.	Railing (Aluminum Rail & Supports, Concrete Parapet)				329		
S-16	Lump	Sum	First Test Pile		Lump				
S-18	616	Lin.Ft.	Steel Piles 12BP53		616				
S-29	22	Cu.Yds.	Porous Backfill			22			
I-10	429	Sq.Yds.	Crushed Aggregate Slope Protection				429		
I-127	4	Ea.	Delineators, Bracket Mounted, Type B-1				4		

MICHAEL BAKER JR., CONSULTING ENGINEERS
ROCHESTER, PENNSYLVANIA

REINFORCING STEEL LIST & ESTIMATED QUANTITIES

RAMP "C" OVER EDDY ROAD
STA. 32+79.49
LAKE COUNTY
STA. 34+22.23

Designed	Drawn	Traced	Checked	Reviewed-Date	Revised
W.R.B.	B.H.B	W.H.T.	H.C.M.	H.G.H.-12-30-58	

K&E 100 IMPERIAL TRACING CLOTH 5 X 8 60449