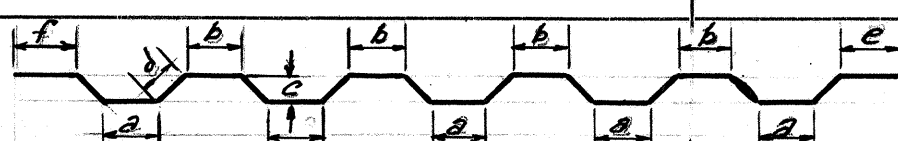
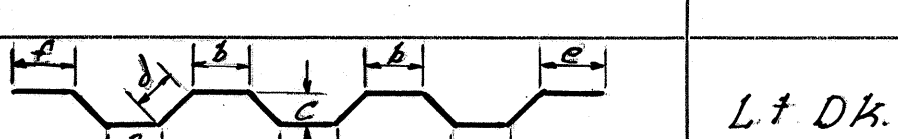
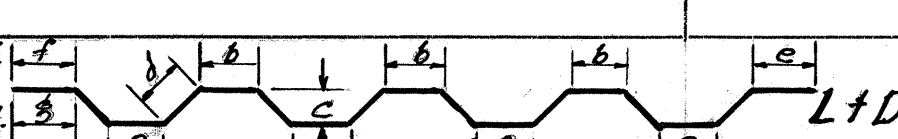
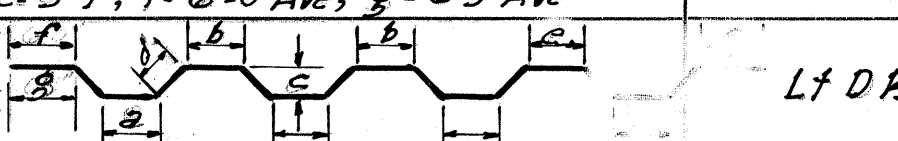
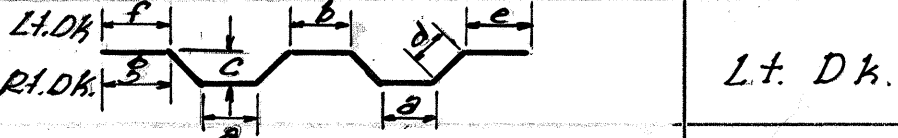
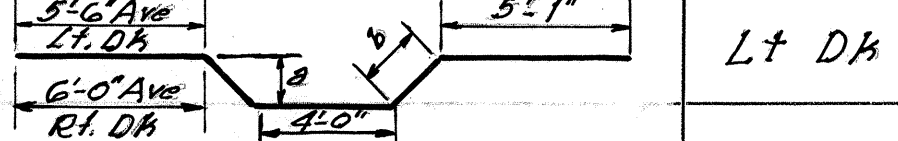
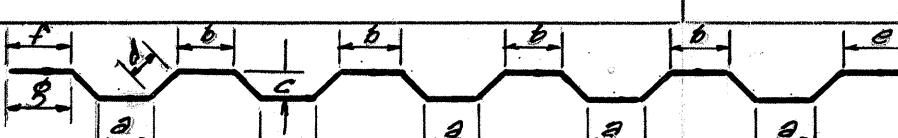
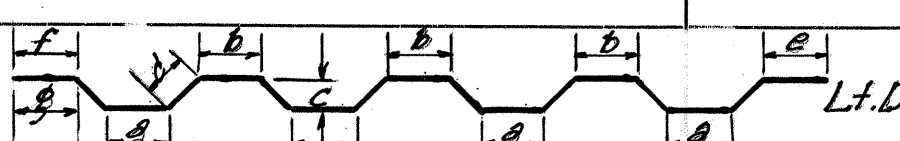
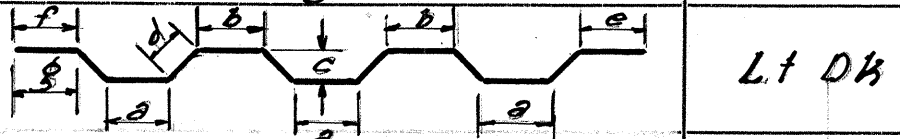
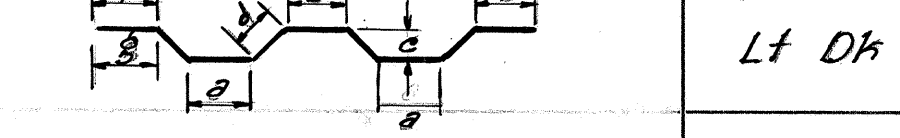
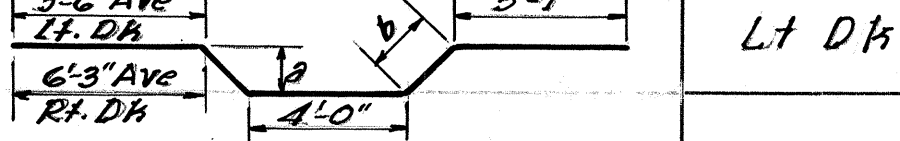
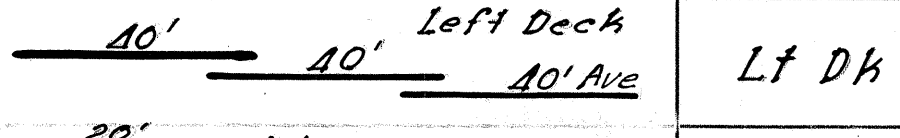
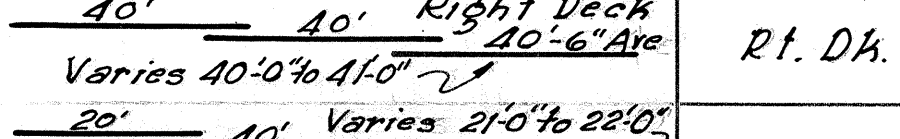
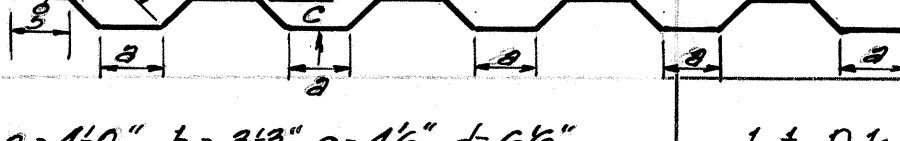
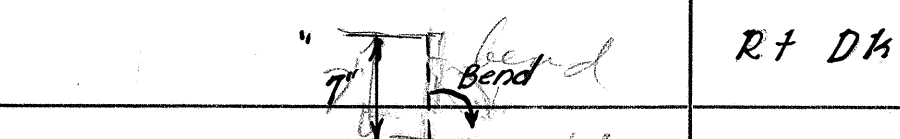
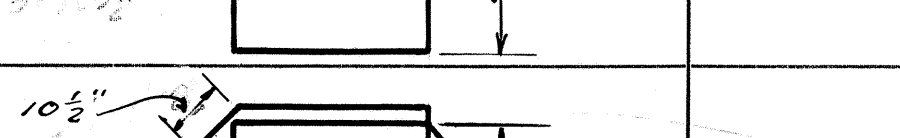
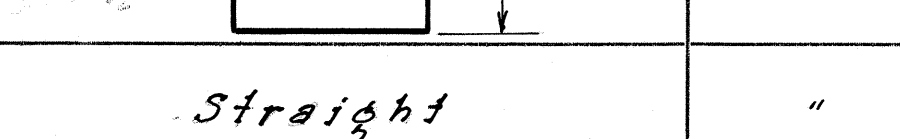


STEEL SCHEDULE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
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MK	DESCRIPTION	Location	Size	Length	No. of Bars in Ea. Unit	No. of Units	Total No. of Bars	Total Length	Wt. Per Ft.	Total Weight
5-1	 a=4'-0", b=3'-3", c=4'-1/2", d=6'-1/2" e=5'-1", f=5'-1"	Left Deck	5	48'-7"	75	1	75	3643.7		
		Right Deck	"	48'-7"	77	1	77	3740.0		
5-2	Straight	Lt Dh	"	46'-11"	79	1	79	3706.4		
	"	Rt Dh	"	"	"	"	"	3706.4		
5-3	"	Lt Dh	"	7'-6"	12	1	12	90.0		
	"	Rt Dh	"	"	"	"	"	90.0		
5-4	 a=4'-0", b=3'-3", c=4'-1/2", d=6'-1/2" e=6'-0", f=5'-1"	Lt Dh	"	32'-10"	8	1	8	262.7		
		Rt Dh	"	32'-10"	7	1	7	229.6		
5-5	Straight	Lt Dh	"	31'-6"	4	1	4	126.0		
	"	Rt Dh	"	31'-6"	5	1	5	157.5		
5-6	 a=4'-0", b=3'-3", c=4'-1/2", d=6'-1/2" e=5'-1", f=6'-0", g=6'-3"	Lt Dh	"	41'-2"	6	1	6	247.0		
		Rt Dh	"	41'-5"	6	1	6	249.0		
5-7	 a=4'-0", b=3'-3", c=4'-1/2", d=6'-1/2" e=5'-1", f=6'-0", g=6'-3"	Lt Dh	"	32'-10"	6	1	6	197.0		
		Rt Dh	"	33'-1"	6	1	6	198.5		
5-8	 a=4'-0", b=3'-3", c=4'-1/2", d=6'-1/2" e=5'-1", f=6'-0", g=6'-3"	Lt Dh	"	24'-3"	6	1	6	145.5		
		Rt Dh	"	24'-6"	6	1	6	147.0		
5-9	 a=4'-0", b=3'-3", c=4'-1/2", d=6'-1/2" e=5'-1", f=6'-0", g=6'-3"	Lt Dh	"	15'-8"	6	1	6	94.0		
		Rt Dh	"	16'-2"	6	1	6	97.0		
5-10	Straight	Lt Dh	"	20'-6"	25	1	25	737.5		
	"	Rt Dh	"	"	"	"	"	737.5		
5-11	"	Lt Dh	"	8'-9"	8	1	8	70.0		
	"	Rt Dh	"	9'-3"	9	1	9	83.3		
5-12	"	Lt Dh	"	5'-6"	7	1	7	38.5		
	"	Rt Dh	"	"	"	"	"	38.5		
5-13	 a=4'-0", b=3'-3", c=4'-1/2", d=6'-1/2" e=5'-1", f=3'-0", g=2'-10"	Lt Dh	"	46'-6"	1	1	1	46.5		
		Rt Dh	"	46'-4"	1	1	1	46.3		

MK	DESCRIPTION	Location	Size	Length	No. of Bars in Ea. Unit	No. of Units	Total No. of Bars	Total Length	Wt. Per Ft.	Total Weight
5-14	 a=4'-0", b=3'-3", c=4'-1/2", d=6'-1/2", e=5'-1" f=4'-0", g=5'-6", h=7'-0"	Lt Dh	5	40'-8"	6	1	6	244.0		
		Rt Dh	"	42'-2"	6	1	6	253.0		
5-15	 a=4'-0", b=3'-3", c=4'-1/2", d=6'-1/2", e=5'-1" f=4'-0", g=5'-6", h=7'-0"	Lt Dh	"	32'-7"	6	1	6	195.5		
		Rt Dh	"	33'-4"	7	1	7	233.3		
5-16	 a=4'-0", b=3'-3", c=4'-1/2", d=6'-1/2", e=5'-1" f=4'-0", g=5'-6", h=7'-0"	Lt Dh	"	24'-0"	6	1	6	144.0		
		Rt Dh	"	24'-9"	6	1	6	148.5		
5-17	 a=4'-0", b=3'-3", c=4'-1/2", d=6'-1/2", e=5'-1" f=4'-0", g=5'-6", h=7'-0"	Lt Dh	"	15'-8"	6	1	6	94.0		
		Rt Dh	"	16'-5"	6	1	6	98.5		
5-18	Straight	Lt Dh	"	9'-6"	7	1	7	66.5		
	"	Rt Dh	"	9'-6"	9	1	9	85.5		
5-19	"	Lt Dh	"	6'-3"	7	1	7	43.8		
	"	Rt Dh	"	"	"	"	"	43.8		
5-20	"	Lt Dh	"	41'-6"	79	1	79	3278.5		
	"	Rt Dh	"	41'-6"	82	1	82	3403.0		
5-22	"	Lt Dh	"	7'-9"	16	1	16	124.0		
	"	Rt Dh	"	"	"	"	"	124.0		
5-23	"	Lt Dh	"	7'-6"	8	1	8	60.0		
	"	Rt Dh	"	"	"	"	"	60.0		
5-24	"	Lt Dh	"	4'-6"	4	1	4	18.0		
	"	Rt Dh	"	"	"	"	"	18.0		
5-25	 a=4'-0", b=3'-3", c=4'-1/2", d=6'-1/2", e=5'-1" f=4'-0", g=5'-6", h=7'-0"	Lt Dh	"	120'-0"	3	5	15	1800.0		
		Lt Dh	"	120'-0"	2	5	10	1200.0		
5-25	 a=4'-0", b=3'-3", c=4'-1/2", d=6'-1/2", e=5'-1" f=4'-0", g=5'-6", h=7'-0"	Rt Dh	"	120'-6"	3	5	15	1807.5		
		Rt Dh	"	121'-6"	2	5	10	1215.0		
5-26	 a=4'-0", b=3'-3", c=4'-1/2", d=6'-1/2", e=5'-1" f=4'-0", g=5'-6", h=7'-0"	Lt Dh	"	46'-4"	2	1	2	92.7		
		Rt Dh	"	47'-0"	1	1	1	47.0		
5-27	Straight	Lt Dh	"	29'-0"	25	1	25	725.0		
	"	Rt Dh	"	29'-3"	25	1	25	731.3		

MK	DESCRIPTION	Location	Size	Length	No. of Bars in Ea. Unit	No. of Units	Total No. of Bars	Total Length	Wt. Per Ft.	Total Weight
5-28	Straight	Left Deck	5	26'-0"	50	1	50	1300.0		
	"	Right Deck	"	26'-0"	48	1	48	1248.0		
4-4	"	Lt Dh	"	40'-0"	24	1	24	960.0		
	"	Rt Dh	"	"	"	"	"	960.0		
4-5	"	Lt Dh	"	40'-0"	24	1	24	960.0		
	"	Rt Dh	"	41'-6"	24	1	24	996.0		
4-6	"	Lt Dh	"	6'-6"	30	1	30	195.0		
	"	Rt Dh	"	"	"	"	"	195.0		
9-2	"	Lt Dh	"	40'-0"	36	1	36	1440.0		
	"	Rt Dh	"	"	"	"	"	1440.0		
4-1	 a=4'-0", b=3'-3", c=4'-1/2", d=6'-1/2", e=5'-1" f=4'-0", g=5'-6", h=7'-0"	Girder	4	9'-6 1/2"	38	24	912	8702.0		
4-2	 a=4'-0", b=3'-3", c=4'-1/2", d=6'-1/2", e=5'-1" f=4'-0", g=5'-6", h=7'-0"	"	"	12'-3 1/2"	12	24	288	3540.0		
4-2	 a=4'-0", b=3'-3", c=4'-1/2", d=6'-1/2", e=5'-1" f=4'-0", g=5'-6", h=7'-0"	"	"	13'-0 1/2"	8	24	192	2504.0		
4-3	Straight	"	"	35'-0"	2	24	48	1680.0		
10-1	 a=4'-0", b=3'-3", c=4'-1/2", d=6'-1/2", e=5'-1" f=4'-0", g=5'-6", h=7'-0"	"	"	76'-8 3/8"	2	3	6	460.2		
a	Span 2	G 1,2,3	"	77'-9 1/4"	2	3	6	466.6		
10-1	 a=4'-0", b=3'-3", c=4'-1/2", d=6'-1/2", e=5'-1" f=4'-0", g=5'-6", h=7'-0"	G 4,5,6	"	77'-0 3/8"	2	3	6	462.2		
b	Span 2	G 4,5,6	"	78'-1 1/8"	2	3	6	468.8		
10-1	 a=4'-0", b=3'-3", c=4'-1/2", d=6'-1/2", e=5'-1" f=4'-0", g=5'-6", h=7'-0"	G 7,8,9	"	77'-4 3/8"	2	3	6	464.1		

CONTRACTOR'S NOTE

This steel schedule is subordinate to details shown on the plans. In case of discrepancy between steel list and detail drawings the latter shall govern.

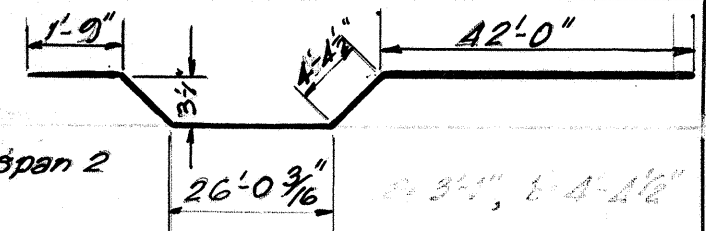
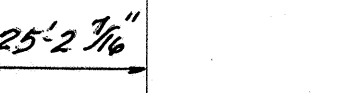
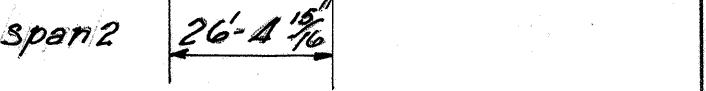
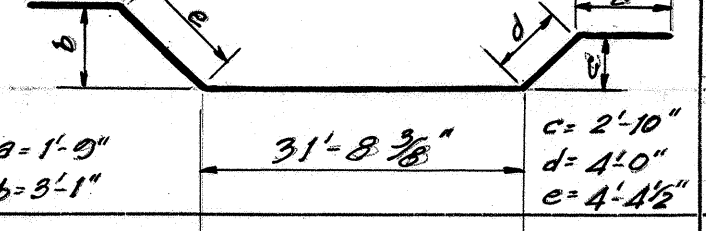
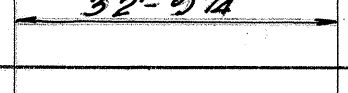
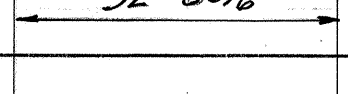
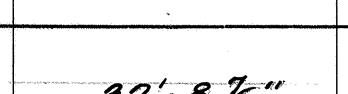
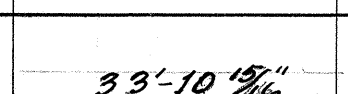
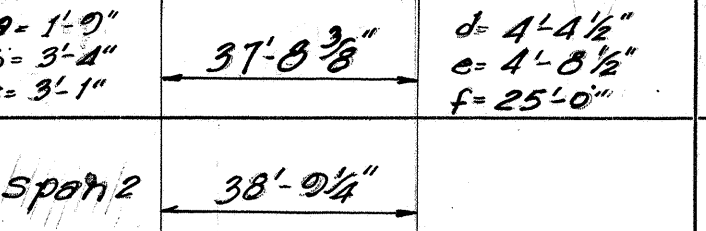
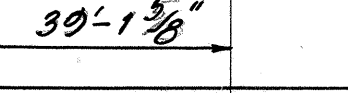
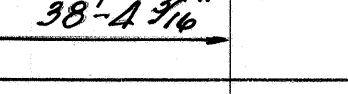
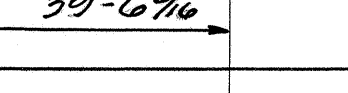
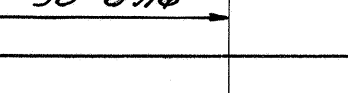
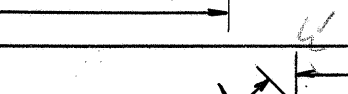
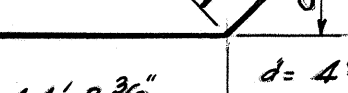
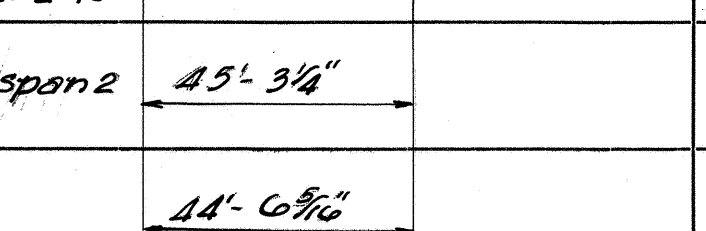
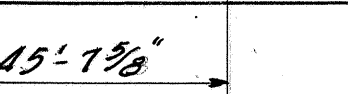
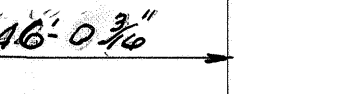
The Territorial Highway Dept. does not assume responsibility for any errors that may occur in the steel schedule. Contractor shall check steel before placing order.

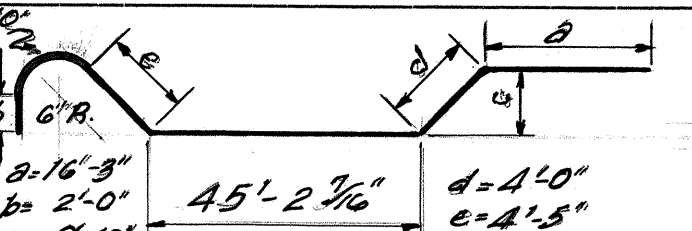
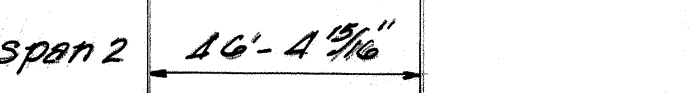
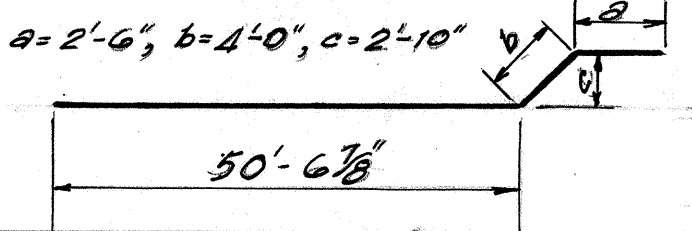
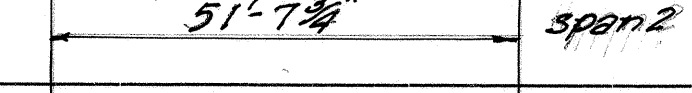
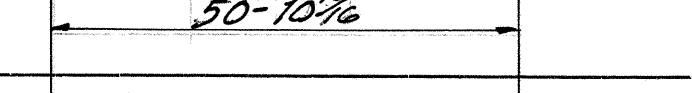
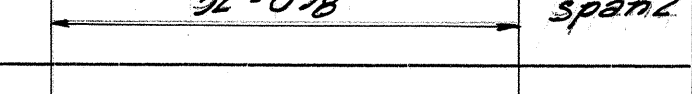
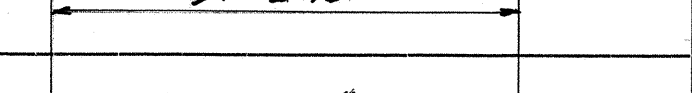
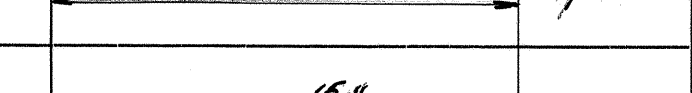
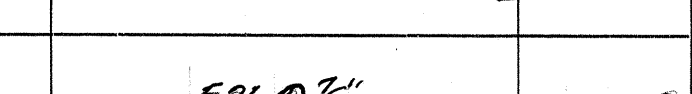
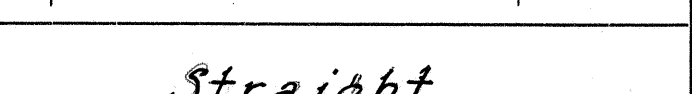
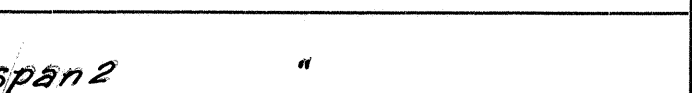
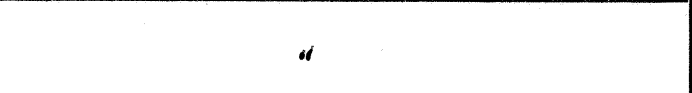
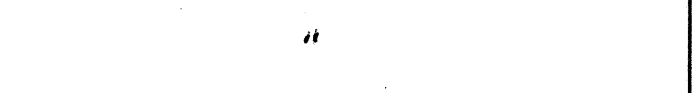
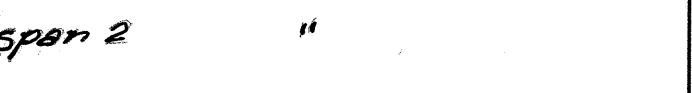
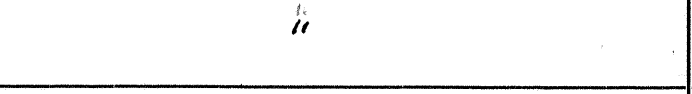
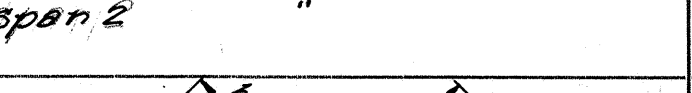
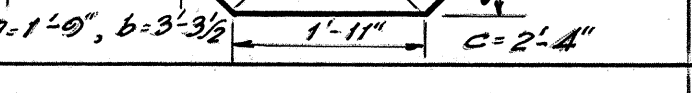
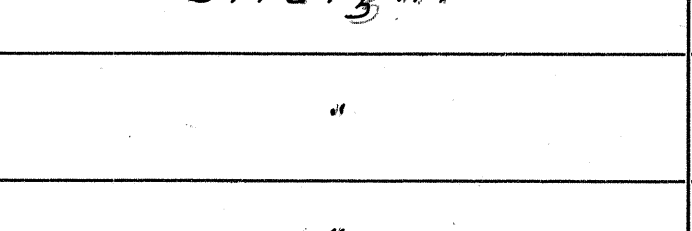
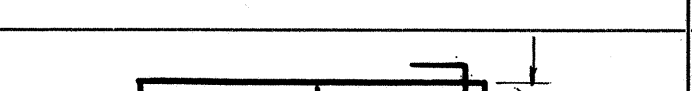
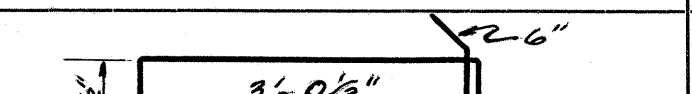
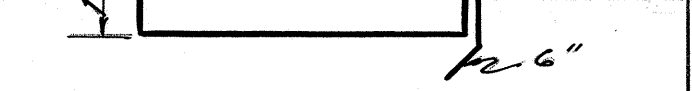
All stirrup dimensions are to inside of stirrups; all other dimensions are figured to out to out of bars.

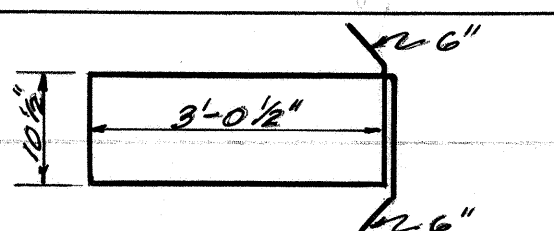
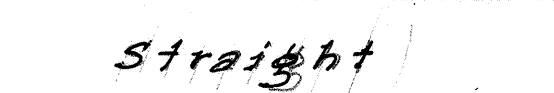
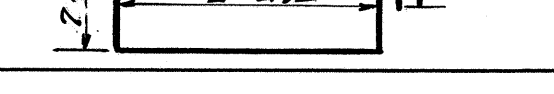
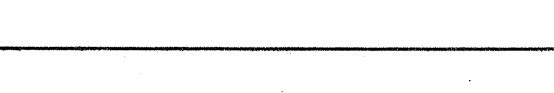
TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
UNIVERSITY AVE. SEPARATION
Sta. 13 + 35.75 to Sta. 14 + 97.55
MAUKA ARTERIAL _____ FU 59 (3)
August, 1951

STEEL SCHEDULE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS

MK	DESCRIPTION	Location	Size	Length	No. of Bars in Ea. Unit	No. of Units	Total No. of Bars	Total Length	Wt. Per Ft.	Total Weight
10-1 c		Girder G 7, 8, 9	10	75'-6 3/4"	2	3	6	471.1		
10-1 d		G 10, 11, 12	"	77'-8 1/4"	"	"	"	466.2		
10-1 d		G 10, 11, 12	"	78'-10 3/4"	"	"	"	473.5		
10-2 a		G 1, 2, 3	"	43'-6 1/8"	"	"	"	261.4		
10-2 a		G 1, 2, 3	"	44'-7 3/4"	"	"	"	267.9		
10-2 b		G 4, 5, 6	"	43'-10 3/8"	"	"	"	263.4		
10-2 b		G 4, 5, 6	"	45'-0 1/8"	"	"	"	270.1		
10-2 c		G 7, 8, 9	"	44'-2 1/8"	"	"	"	265.3		
10-2 c		G 7, 8, 9	"	45'-4 1/8"	"	"	"	272.3		
10-2 d		G 10, 11, 12	"	44'-6 3/8"	"	"	"	267.5		
10-2 d		G 10, 11, 12	"	45'-9 3/8"	"	"	"	274.7		
10-3 a		G 1, 2, 3	"	73'-6 3/8"	"	"	"	441.2		
10-3 a		G 1, 2, 3	"	74'-7 1/4"	"	"	"	447.6		
10-3 b		G 4, 5, 6	"	73'-10 1/8"	"	"	"	443.2		
10-3 b		G 4, 5, 6	"	74'-11 3/8"	"	"	"	449.8		
10-3 c		G 7, 8, 9	"	74'-2 3/8"	"	"	"	445.1		
10-3 c		G 7, 8, 9	"	75'-4 3/8"	"	"	"	452.1		
10-3 d		G 10, 11, 12	"	74'-6 3/8"	"	"	"	447.2		
10-3 d		G 10, 11, 12	"	75'-8 3/8"	"	"	"	454.5		
10-4 a		G 1, 2, 3	"	71'-8 3/8"	"	"	"	430.2		
10-4 a		G 1, 2, 3	"	72'-9 1/4"	"	"	"	436.6		
10-4 b		G 4, 5, 6	"	72'-0 3/8"	"	"	"	432.2		
10-4 b		G 4, 5, 6	"	73'-1 3/8"	"	"	"	438.8		
10-4 c		G 7, 8, 9	"	72'-4 3/8"	"	"	"	434.1		
10-4 c		G 7, 8, 9	"	73'-6 3/8"	"	"	"	441.1		

MK	DESCRIPTION	Location	Size	Length	No. of Bars in Ea. Unit	No. of Units	Total No. of Bars	Total Length	Wt. Per Ft.	Total Weight
10-4 d		Girder G 10, 11, 12	10	72'-8 3/8"	2	3	6	436.2		
10-4 d		G 10, 11, 12	"	73'-10 3/8"	"	"	"	443.5		
10-5 a		G 1, 2, 3	"	57'-0 3/8"	"	"	"	342.4		
10-5 a		G 1, 2, 3	"	58'-1 3/8"	"	"	"	348.9		
10-5 b		G 4, 5, 6	"	57'-4 3/8"	"	"	"	344.4		
10-5 b		G 4, 5, 6	"	58'-6 3/8"	"	"	"	351.1		
10-5 c		G 7, 8, 9	"	57'-8 3/8"	"	"	"	346.3		
10-5 c		G 7, 8, 9	"	58'-10 3/8"	"	"	"	353.3		
10-5 d		G 10, 11, 12	"	58'-0 3/8"	"	"	"	348.5		
10-5 d		G 10, 11, 12	"	59'-3 3/8"	"	"	"	355.7		
10-6 a		G 1, 2, 3	"	63'-10 3/8"	"	"	"	383.2		
10-6 a		G 1, 2, 3	"	64'-11 1/4"	"	"	"	389.6		
10-6 b		G 4, 5, 6	"	64'-2 3/8"	"	"	"	385.2		
10-6 b		G 4, 5, 6	"	65'-3 3/8"	"	"	"	391.8		
10-6 c		G 7, 8, 9	"	64'-6 3/8"	"	"	"	387.1		
10-6 c		G 7, 8, 9	"	65'-8 3/8"	"	"	"	394.1		
10-6 d		G 10, 11, 12	"	64'-10 3/8"	"	"	"	389.2		
10-6 d		G 10, 11, 12	"	66'-0 3/8"	"	"	"	396.5		
10-7 a		Girders	"	12'-0"	2	12	24	288.0		
11-1		"	11	12'-0"	4	12	48	576.0		
5-20		Transv. Beam A	5	51'-0"	4	1	4	204.0		
5-20 a		Transv. Beam B	"	51'-6"	4	1	4	206.0		
4-13		"	4	6'-9 1/2"	50	1	50	339.6		
4-7		Transv. Beam C	"	9'-11"	10	8	80	193.3		
7-3		"	7	17'-0"	6	8	48	816.0		

MK	DESCRIPTION	Location	Size	Length	No. of Bars in Ea. Unit	No. of Units	Total No. of Bars	Total Length	Wt. Per Ft.	Total Weight
4-7		Transv. Beam D	4	9'-11"	5	4	20	193.3		
7-2		"	7	9'-0"	6	4	24	216.0		
6-3 a		Transv. Beam E	6	50'-2"	4	1	4	200.7		
6-3 b		"	"	50'-8"	"	"	"	202.7		
6-3 c		"	"	52'-0"	"	"	"	208.0		
6-3 d		"	"	52'-9"	"	"	"	211.0		
4-8		"	4	7'-2 1/2"	30	4	120	865.0		
			4					22,383.2	0.668	15,289
			5					38,738.9	1.043	39,853
			6					322.1	1.502	1,235
			7					1,032.0	2.044	2,109
			8					2,380.0	3.400	9,792
			10					19,744.0	4.303	82,371
			11					5760	5.313	3,060
TOTAL SUPERSTRUCTURE										153,745
10-1		Curb	1	1'-0"	2	12	24	22.0		
4-1		"	"	3'-0"	"	"	"	60.0		
4-2		"	"	3'-0"	"	"	"	60.0		
4-3		"	"	3'-0"	"	"	"	60.0		
4-4		"	"	3'-0"	"	"	"	60.0		
4-5		"	"	3'-0"	"	"	"	60.0		

CONTRACTOR'S NOTE

This steel schedule is subordinate to details shown on the plans. In case of discrepancy between steel list and detail drawings the latter shall govern.

The Territorial Highway Dept. does not assume responsibility for any errors that may occur in the steel schedule. Contractor shall check steel before placing order.

All stirrup dimensions are to inside of stirrups; all other dimensions are figured to out to out.

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

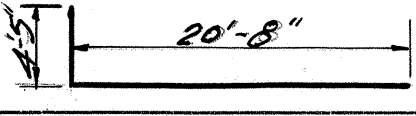
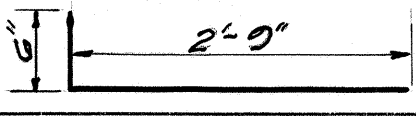
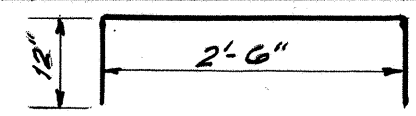
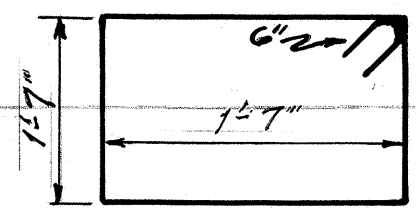
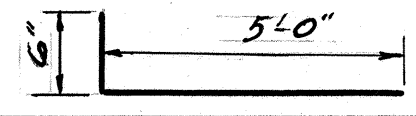
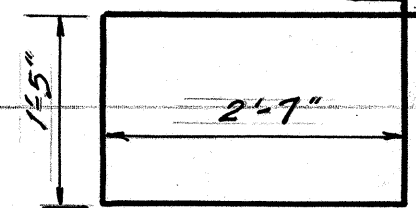
UNIVERSITY AVE. SEPARATION
Sta. 13+35.16 to Sta. 14+97.66

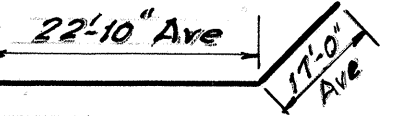
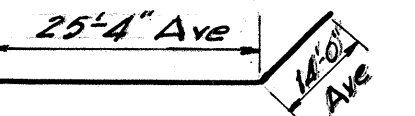
MAUKA ARTERIAL _____ FU 59(3)
August, 1951

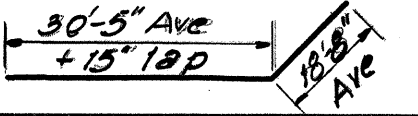
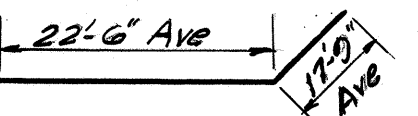
SHEET No. 2 OF 11 SHEETS

STEEL SCHEDULE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS

MK	DESCRIPTION	Location	Size	Length	No. of Bars in Ea. Unit	No. of Units	Total No. of Bars	Total Length	Wt. Per Ft.	Total Weight
								1280	6668	100
	TOTAL CURB & MEDIAN STRIP									100
	TOTAL SUPERSTRUCTURE									5,000
4-11 a		Pier Footing	4	25'-1"	2	1	2	50.2		
4-11 b	Straight 11(1'-0") lap	"	"	58'-6 1/2"	2	1	2	117.1		
4-11 c		"	"	3'-3"	78	2	156	507.0		
4-11 d	Straight	"	"	37'-5"	2	1	2	74.8		
4-11 e	"	Pier	"	6'-0"	24	1	24	144.0		
4-11 f	"		"	4'-11"	26	1	26	127.8		
4-11 g	"	"	"	7'-1"	26	1	26	184.2		
4-11 h	"	"	"	7'-0"	28	1	28	196.0		
4-11 i	"	"	"	5'-11"	28	1	28	165.7		
4-11 j	"	"	"	4'-10"	24	1	24	116.0		
4-10	" 11(1'-0") lap	"	"	57'-5"	6	1	6	344.5		
4-10 a	"	"	"	36'-11"	2	1	2	73.8		
4-10 b	"	"	"	17'-0"	2	1	2	34.0		
4-10 c	"	"	"	19'-2"	4	1	4	76.7		
4-10 d	" 11(1'-0") lap	"	"	58'-0"	6	1	6	348.0		
4-10 e	"	"	"	39'-4 1/2"	2	1	2	78.8		
4-10 f	"	"	"	19'-3"	2	1	2	38.5		
4-10 g		"	"	4'-6"	78	1	78	351.0		
		A						3,028.1	0.668	2,023
	TOTAL FOOTING & COLUMN BASE									2,023
4-15		Pier Column	4	7'-4"	360	1	360	2,640.0		
7-5	Straight	"	"	13'-10 3/8" Ave	10	12	120	1,666.0		
7-6		"	7	5'-6"	10	12	120	660.0		
4-12		Pier Col. Cap A & B	4	9'-0"	27	2	54	486.0		

MK	DESCRIPTION	Location	Size	Length	No. of Bars in Ea. Unit	No. of Units	Total No. of Bars	Total Length	Wt. Per Ft.	Total Weight
7-4	Straight	Pier Col. Cap A	7	34'-0"	6	1	6	324.0		
7-4 a	"	Cap B	"	34'-8"	6	1	6	328.0		
4-18	"	Concrete Seat	4	2'-2"	16	12	192	416.0		
4-19	"	"	"	2'-8"	6	12	72	192.0		
4-20	"	"	"	2'-2"	4	12	48	104.0		
11-1	"	"	11	6'-0"	3	12	36	216.0		
			4					3,838.0	0.668	2,564
			7					2,978.2	2.044	6,087
			11					216.0	5.313	1,148
	TOTAL COLUMN & CAPS									9,799
	TOTAL PIER									11,822
4-24	Straight	Abut. No. 1 Footing Type A Top Layer	4	7'-0"	12	1	12	84.0		
4-29	"	"	"	39'-8"	6	1	6	238.0		
4-40	"	"	"	22'-6"	5	1	5	112.5		
4-70		"	"	39'-10" Ave	6	1	6	239.0		
4-71	Straight	"	"	16'-0"	15	1	15	240.0		
					41	1	41	656.0		
4-72	"	"	"	8'-6" Ave	4	1	4	34.0		
4-73	"	"	"	8'-7" Ave	5	1	5	42.0		
5-25	"	"	5	6'-0"	4	4	16	96.0		
5-27	"	"	"	33'-0"	4	1	4	135.0		
5-40		"	"	39'-4" Ave	4	1	4	157.3		
6-1	Straight	"	6	6'-0"	4	3	12	72.0		
					3	4	12	72.0		
6-2	"	"	"	22'-6"	4	1	4	90.0		
6-4	"	"	"	33'-0"	4	1	4	135.0		
6-5		"	"	34'-0"	4	1	4	130.0		

MK	DESCRIPTION	Location	Size	Length	No. of Bars in Ea. Unit	No. of Units	Total No. of Bars	Total Length	Wt. Per Ft.	Total Weight
7-7	Straight	Abut. No. 1 Footing Type A Top Layer	7	6'-0"	3	2	6	36.0		
					3	2	6	36.0		
7-8	"	"	"	22'-6"	4	1	4	90.0		
4-24	"	Footing Type A Bottom Layer	4	7'-0"	9	4	36	252.0		
4-29	"	"	"	39'-5"	9	1	9	354.8		
4-40	"	"	"	22'-6"	9	1	9	202.5		
4-47	"	"	"	33'-0"	2	1	2	67.5		
4-74		"	"	50'-4" Ave	2	1	2	100.7		
4-75		"	"	31'-11" Ave	9	1	9	287.2		
5-25	Straight	"	5	6'-0"	2	5	10	60.0		
5-41	"	"	"	16'-0"	13	1	13	240.0		
					33	1	33	560.0		
5-42	"	"	"	11'-9"	13	1	13	152.8		
					33	1	33	387.8		
5-43	"	"	"	7'-0"	12	1	12	84.0		
					20	1	20	203.0		
5-44	"	"	"	16'-0" Ave	8	1	8	134.0		
5-45	"	"	"	12'-6" Ave	13	1	13	187.5		
5-46	"	"	"	7'-0" Ave	23	1	23	178.2		
5-47	"	"	"	39'-0"	2	1	2	70.5		
5-48		"	"	40'-3" Ave	2	1	2	80.5		
6-1	Straight	"	6	6'-0"	6	1	6	36.0		
					2	2	4	24.0		
6-2	"	"	"	22'-6"	2	1	2	45.0		
4-24	"	Abut. No. 1 Footing Type B Top Layer	4	7'-0"	3	6	18	126.0		
4-25	"	"	"	29'-5"	8	1	8	235.3		
4-76	"	"	"	30'-2"	8	1	8	241.3		
4-77	"	"	"	28'-0"	8	1	8	224.0		

CONTRACTOR'S NOTE

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All stirrup dimensions are to inside of stirrups; all other dimensions are figured to outside of bars.

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
UNIVERSITY AVE. SEPARATION
Sta. 13+35.15 to Sta. 14+07.65
MAUKA ARTERIAL FU 59 (3)
August, 1951

STEEL SCHEDULE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS

MK	DESCRIPTION	Location	Size	Length	No. of Bars in Ea. Unit	No. of Units	Total No. of Bars	Total Length	Wt. Per Ft.	Total Weight
4-78	Straight	Abut No. 1 Footing Type B Top Layer	4	14'-6"	53	1	53	768.5		
5-25	"	"	5	6'-0"	3	5	15	90.0		
5-28	"	"	"	35'-6"	3	1	3	106.5		
5-40	"	"	"	24'-0"	3	1	3	74.2		
5-50	"	"	"	28'-0"	3	1	3	84.0		
6-1	"	"	6	6'-0"	3	2	6	36.0		
7-7	"	"	7	6'-0"	3	5	15	90.0		
7-9	"	"	"	35'-6"	4	1	4	142.0		
7-10	"	"	"	24'-0"	4	1	4	90.0		
7-11	"	"	"	28'-0"	4	1	4	112.0		
8-1	"	"	8	6'-0"	3	2	6	36.0		
4-24	"	Abut No. 1 Footing Type B Bottom Layer	4	7'-0"	3	6	18	126.0		
4-25	"	"	"	20'-5"	4	1	4	117.7		
4-42	"	"	"	6'-0"	2	6	12	72.0		
4-55	"	"	"	35'-8"	4	1	4	142.7		
4-77	"	"	"	28'-0"	6	1	6	168.0		
4-79	"	"	"	24'-6"	2	2	4	98.0		
4-80	"	"	"	30'-5"	4	1	4	121.7		
4-81	"	"	"	7'-0"	2	1	2	14.0		
4-82	"	"	"	30'-6"	2	1	2	70.0		
5-25	"	"	5	6'-0"	2	2	4	24.0		
5-50	"	"	"	28'-0"	4	1	4	112.0		
5-51	"	"	"	20'-5"	4	1	4	117.7		
5-52	"	"	"	30'-2"	4	1	4	120.7		
5-53	"	"	"	14'-6"	47	1	47	681.5		
5-54	"	"	"	8'-6"	50	1	50	425.0		
5-55	"	"	"	6'-0"	17	1	17	138.0		
5-56	"	"	"	7'-0"	3	6	18	126.0		
5-57	"	"	"	6'-0"	3	1	3	18.0		
6-1	"	"	6	6'-0"	2	6	12	72.0		

MK	DESCRIPTION	Location	Size	Length	No. of Bars in Ea. Unit	No. of Units	Total No. of Bars	Total Length	Wt. Per Ft.	Total Weight
6-6	Straight	Abut No. 1 Footing Type B Bottom Layer	6	35'-8"	2	1	2	71.9		
6-6	"	"	"	24'-0"	2	1	2	49.5		
6-7	"	"	"	28'-0"	2	1	2	56.0		
7-7	"	"	7	6'-0"	2	2	4	24.0		
4-32	7'-3" End	Abut Stem Rear Face	4	10'-6"	2	2	4	42.0		
4-36	Straight End	"	"	7'-0"	3	1	3	38.8		
4-42	" Type A#B	"	"	6'-0"	5	3	15	354.0		
4-43	"	"	"	17'-6"	1	1	1	17.5		
4-44	" Type A	"	"	17'-0" Ave	2	1	2	34.0		
4-45	"	"	"	10'-0" Ave	10	1	10	855.0		
4-46	"	"	"	25'-2"	4	1	4	100.7		
4-47	"	"	"	33'-0"	5	1	5	168.8		
4-53	" Type B	"	"	17'-0" Ave	34	1	34	743.0		
4-54	"	"	"	27'-6"	1	1	1	27.5		
4-55	"	"	"	35'-0"	4	1	4	143.0		
4-56	"	"	"	23'-6"	6	1	6	141.0		
4-60	6'-7" Ave	"	"	0'-10" Ave	47	1	47	963.7		
4-60	7'-1" Ave	"	"	10'-4" Ave	13	1	13	134.3		
4-66	Straight 1+(1'-3") lap Type B	"	"	58'-2"	6	1	6	349.0		
4-66	" 1+(1'-3") lap Type A	"	"	58'-11"	6	1	6	353.5		
5-25	" Type A#B	"	5	6'-0"	3	2	6	600.0		
5-26	" Type A	"	"	25'-2"	15	1	15	377.5		
5-27	"	"	"	33'-0"	12	1	12	405.0		
5-28	" Type B	"	"	35'-5"	12	1	12	425.0		
5-29	"	"	"	23'-5"	10	1	10	234.2		
6-1	" Type A#B	"	6	6'-0"	6	2	12	72.0		

MK	DESCRIPTION	Location	Size	Length	No. of Bars in Ea. Unit	No. of Units	Total No. of Bars	Total Length	Wt. Per Ft.	Total Weight
4-23	Type B	Abut Stem Front Face	4	35'-5"	16	1	16	566.7		
4-24	Straight Type A#B	"	"	7'-0"	64	1	64	756.0		
4-25	" Type B	"	"	20'-5"	16	1	16	470.7		
4-26	"	"	"	26'-0"	1	1	1	26.0		
4-27	17'-0" Ave Type A	"	"	10'-0" Ave	30	1	30	592.5		
4-28	Straight	"	"	21'-0" Ave	2	1	2	43.5		
4-29	"	"	"	39'-8" Ave	17	1	17	674.3		
4-30	"	"	"	12'-6"	1	1	1	12.5		
4-31	"	"	"	24'-0"	10	1	10	456.0		
4-41	10'-0" Ave	"	"	21'-0" Ave	31	1	31	674.2		
4-50	Straight Type A#B	"	"	7'-2" Ave	48	1	48	709.5		
4-50	"	"	"	7'-7" Ave	12	1	12	81.0		
4-66	" Type B	"	"	58'-2"	5	1	5	290.8		
4-66	" Type A	"	"	58'-11"	5	1	5	294.6		
4-37	Straight	Left Wingwall Rear Face	4	26'-6" Ave	20	1	20	768.5		
4-40	"	"	"	22'-6"	0	1	0	202.5		
4-42	"	"	"	6'-0"	0	4	36	216.0		
4-65	15'-3"	"	"	21'-10"	0	1	0	106.5		
5-25	"	"	5	6'-0"	7	4	28	168.0		
5-34	"	"	"	22'-6"	7	1	7	157.5		

CONTRACTOR'S NOTE

This steel schedule is subordinate to details shown on the plans. In case of discrepancy between steel list and detail drawings the latter shall govern.

The Territorial Highway Dept. does not assume responsibility for any errors that may occur in the steel schedule. Contractor shall check steel before placing order.

All stirrup dimensions are to inside of stirrups; all other dimensions are figured to outside of bar.

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

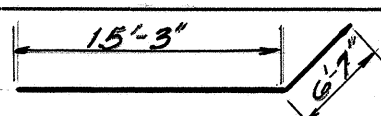
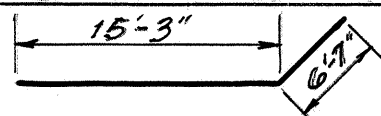
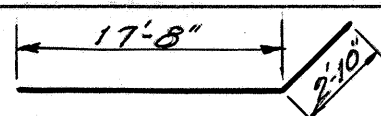
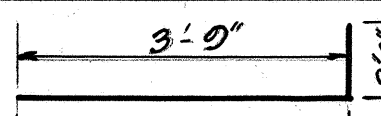
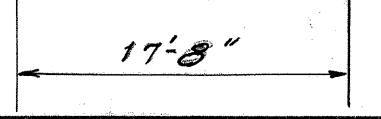
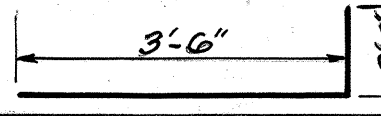
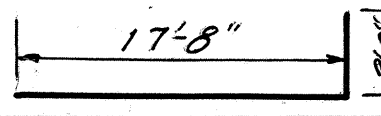
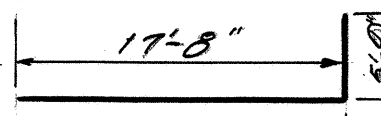
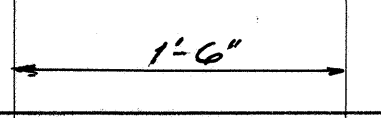
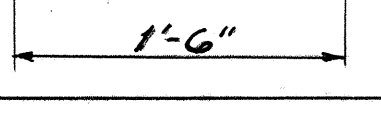
UNIVERSITY AVE. SEPARATION
Sta. 13+95.75 to Sta. 14+97.55

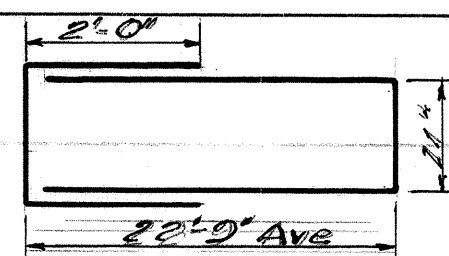
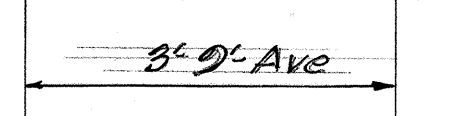
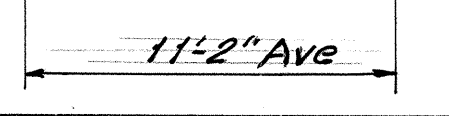
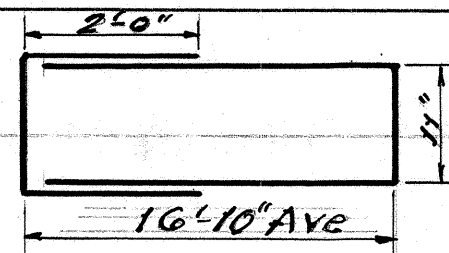
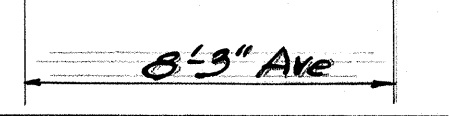
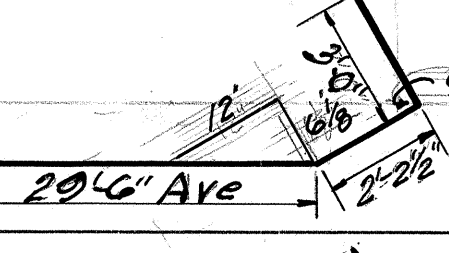
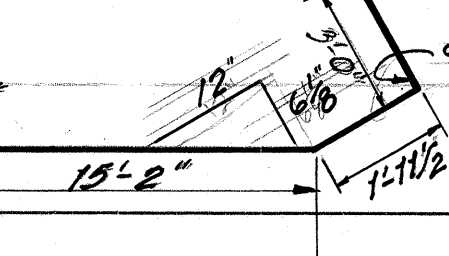
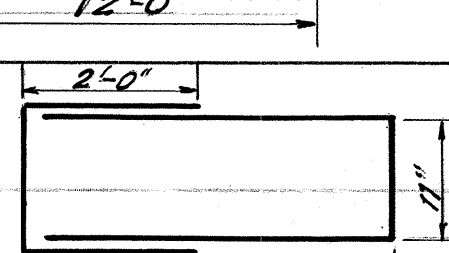
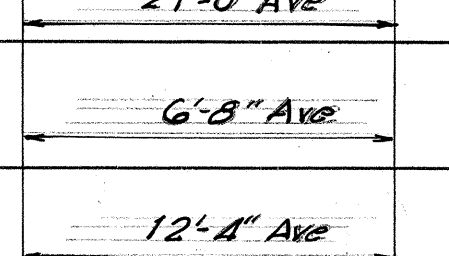
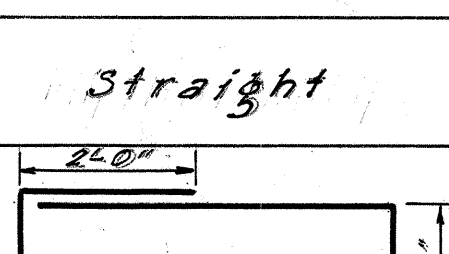
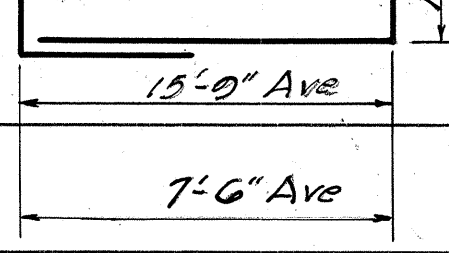
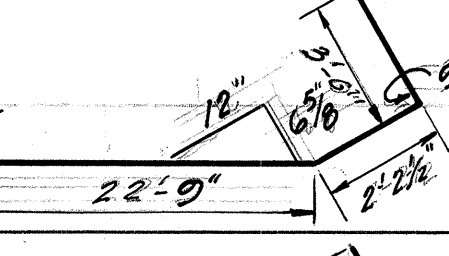
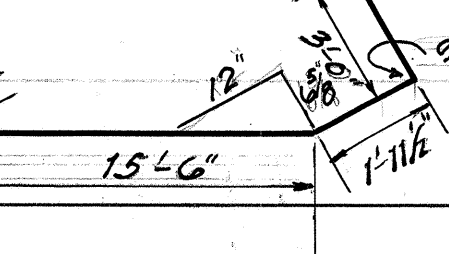
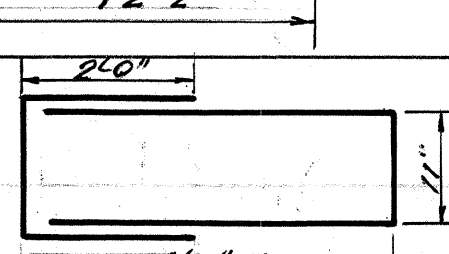
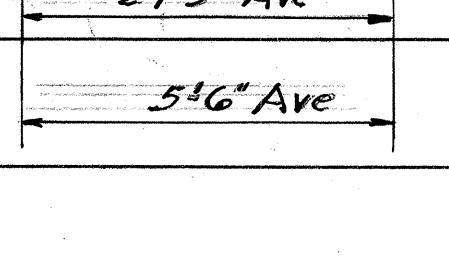
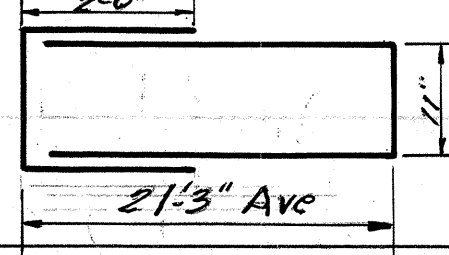
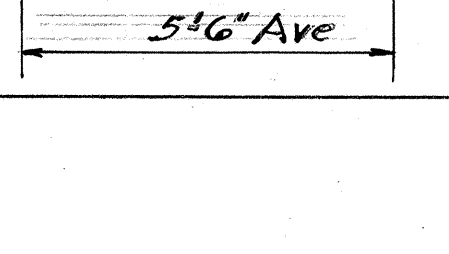
MAUKA ARTERIAL FU 59 (3)
AUGUST, 1951

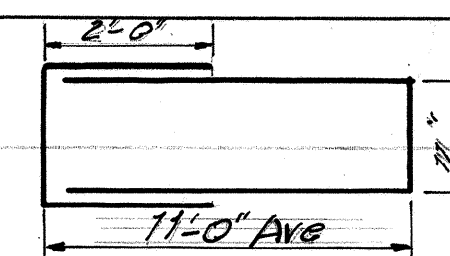
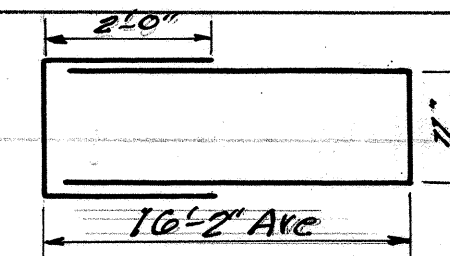
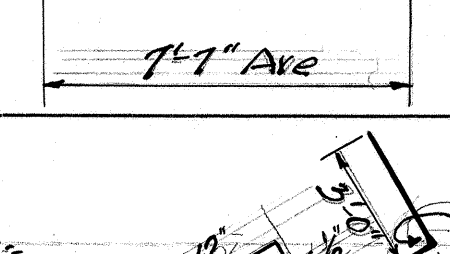
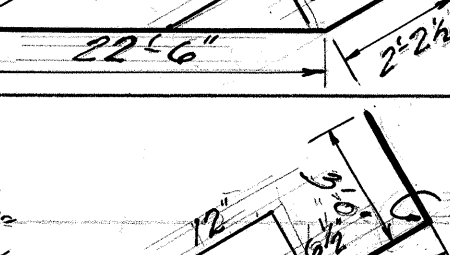
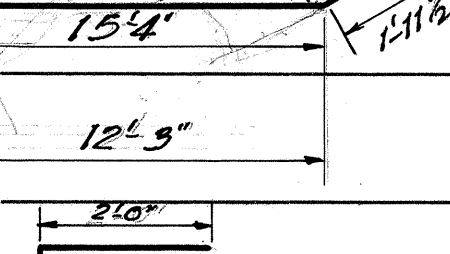
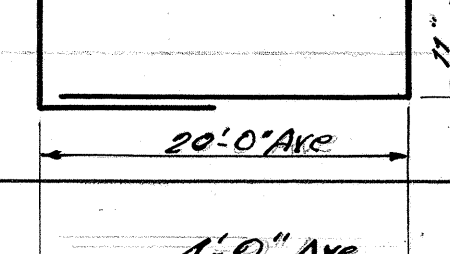
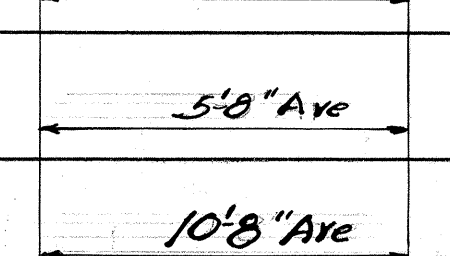
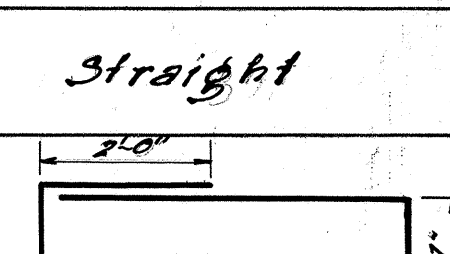
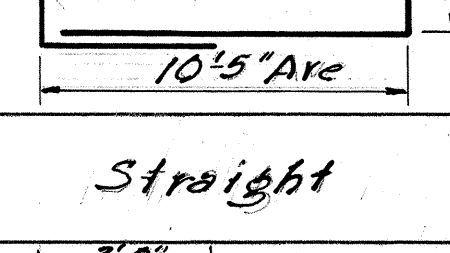
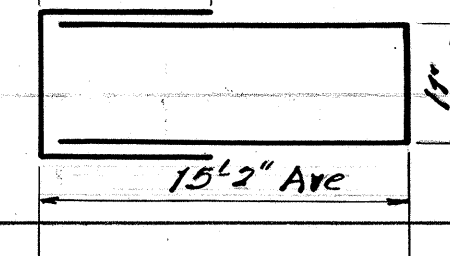
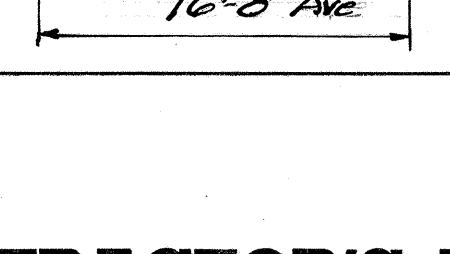
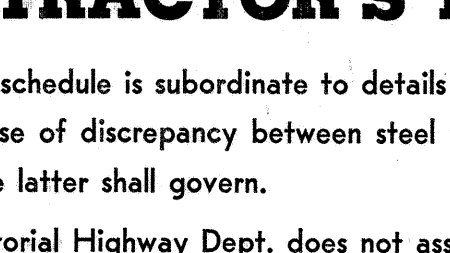
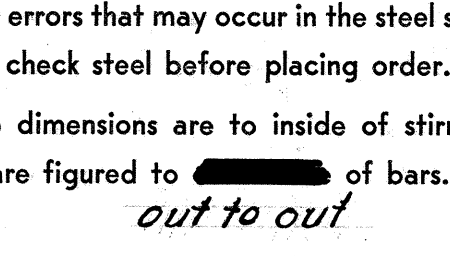
SHEET No. 4 OF 11 SHEETS

STEEL SCHEDULE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS

MK	DESCRIPTION	Location	Size	Length	No. of Bars in Ea. Unit	No. of Units	Total No. of Bars	Total Length	Wt. Per Ft.	Total Weight
5-35		Left Wingwall Rear Face	5	21'-10"	7	1	7	152.8		
6-1	Straight		6	6'-0"	6	4	24	264.0		
6-2				22'-6"	12	1	12	270.0		
6-3				21'-10"	12	1	12	262.0		
4-24	Straight	Front Face	4	7'-0"	5	1	5	98.0		
4-37				26'-6" Ave	32	1	32	848.0		
4-38				18'-0" Ave	20	1	20	360.0		
4-39				20'-6"	5	1	5	102.5		
4-40	Straight			22'-6"	18	1	18	405.0		
4-33		Right Wingwall Rear Face		22'-4" Ave	26	1	26	580.7		
4-34				10'-8"	11	1	11	216.3		
4-42				6'-0"	12	1	12	192.0		
4-61				5'-0"	12	1	12	69.0		
4-63				10'-8"	12	1	12	236.0		
5-25	Straight		5	6'-0"	4	3	12	162.0		
5-30				5'-6"	9	1	9	49.5		
5-32	Straight			10'-8"	9	1	9	177.0		
5-33				10'-8"	10	1	10	196.7		
4-24	Straight	Front Face	4	7'-0"	9	1	9	63.0		
4-33				22'-4" Ave	15	1	15	692.3		
4-34				10'-8"	15	1	15	295.0		
4-35				23'-5"	20	1	20	468.3		
4-65				7'-3"	12	1	12	87.0		
5-31			5	7'-3"	10	1	10	72.5		

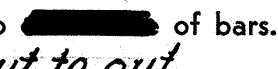
MK	DESCRIPTION	Location	Size	Length	No. of Bars in Ea. Unit	No. of Units	Total No. of Bars	Total Length	Wt. Per Ft.	Total Weight
4-67		Abut No1 Counterforts 1-2-3	4	51'-4" Ave	4	3	12	610.0		
4-68				13'-4" Ave	13	3	39	820.0		
5-36			5	28'-2" Ave	12	3	36	1,014.0		
5-37	Straight			14'-0"	2	3	6	84.0		
6-8			6	30'-6" Ave	2	3	6	237.0		
7-12			7	22'-4" Ave	3	3	24	536.0		
10-8			10	34'-8 1/2" Ave	3	3	9	312.4		
10-9				28'-1 1/2" Ave	1	3	3	60.4		
10-10				19'-11 1/2" Ave	2	3	6	119.8		
4-67		Counterfort 4	4	47'-10" Ave	4	1	4	191.3		
4-68				10'-2" Ave	8	1	8	153.3		
5-36			5	30'-6" Ave	12	1	12	366.0		
5-37	Straight			16'-6"	2	1	2	33.0		
6-8			6	37'-4" Ave	2	1	2	74.7		
7-12			7	20'-10" Ave	3	1	3	166.7		
10-8			10	30'-11 1/2" Ave	3	1	3	93.9		
10-9				23'-5 1/2" Ave	1	1	1	23.5		
10-10				20'-1 1/2" Ave	2	1	2	40.2		
4-67		Counterforts 5-6	4	48'-4" Ave	4	2	8	396.7		
4-68				16'-10" Ave	7	2	14	235.7		

MK	DESCRIPTION	Location	Size	Length	No. of Bars in Ea. Unit	No. of Units	Total No. of Bars	Total Length	Wt. Per Ft.	Total Weight
5-36		Counterforts 5-6	5	27'-10" Ave	12	2	24	668.0		
5-37	Straight			14'-0"	2	2	4	56.0		
6-8			6	38'-2" Ave	2	2	4	152.7		
7-12			7	21'-8" Ave	8	2	16	336.0		
10-8			10	30'-8 1/2" Ave	3	2	6	184.2		
10-9				23'-3 1/2" Ave	1	2	2	46.6		
10-10				20'-2 1/2" Ave	2	2	4	80.8		
4-67		Counterforts 7-8-9	4	45'-10" Ave	4	3	12	550.0		
4-68				15'-4" Ave	7	3	21	322.0		
4-69				17'-2" Ave	9	3	27	463.5		
5-36			5	27'-2" Ave	12	3	36	918.0		
5-37	Straight			14'-0"	2	3	6	84.0		
5-38				26'-8" Ave	8	3	24	640.0		
5-39	Straight			13'-0"	2	3	6	78.0		
6-8			6	36'-8" Ave	2	3	6	217.0		
6-9				30'-2" Ave	3	3	24	940.0		

CONTRACTOR'S NOTE

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All stirrup dimensions are to inside of stirrups; all other dimensions are figured to  of bars.

out to out

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

UNIVERSITY AVE. SEPARATION

Sta. 13+35.75 to 14+27.66

MAUKA ARTERIAL _____ FU 59(3)

August, 1951

[illegible]

MK	DESCRIPTION	Location	Size	Length	No. of Bars in Ea. Unit	No. of Units	Total No. of Bars	Total Length	Wt. Per Ft.	Total Weight
7-12 d		Counterforts 7-8-D	7	20'-2"	8	3	24	484.0		
10-8 d		"	10	20'-8"	3	3	9	267.4		
10-9 d		"	"	23'-8"	1	3	3	71.1		
10-10 d		"	"	20'-5 1/2"	2	3	6	122.8		
4-6D b		Counterforts 10-11-12	4	16'-10"	8	2	16	260.3		
5-3B b		"	5	26'-6"	8	2	16	424.0		
7-13 b		"	7	17'-0"	4	3	12	204.0		
8-2 b		"	8	20'-1 1/2"	1	3	3	62.9		
8-3 b		"	"	17'-1 1/2"	2	3	6	107.8		
9-3 b		"	9	27'-8 1/2"	3	3	9	240.4		
5-3D	Straight	Counterforts 13-14	5	13'-0"	2	2	4	52.0		
6-9 b		"	6	36'-4"	8	2	16	581.3		
7-13 b		"	7	17'-4"	4	2	8	138.7		
8-2 b		"	8	20'-10 1/2"	1	2	2	41.8		
8-3 b		"	"	17'-8 1/2"	2	2	4	70.8		
9-3 b		"	9	26'-10 1/2"	3	2	6	161.2		
4-6D c		Counterforts 15-16-17	4	13'-0"	13	3	39	585.0		
5-3B c		"	5	26'-10"	8	3	24	644.0		
5-3D	Straight	"	"	13'-0"	2	3	6	78.0		

MK	DESCRIPTION	Location	Size	Length	No. of Bars in Ea. Unit	No. of Units	Total No. of Bars	Total Length	Wt. Per Ft.	Total Weight
6-9 c		Counterforts 15-16-17	6	38'-2"	8	3	24	916.0		
7-13 c		"	7	17'-10"	4	3	12	214.0		
8-2 c		"	8	20'-1 1/2"	1	3	3	61.9		
8-3 c		"	"	17'-1 1/2"	2	3	6	105.8		
9-3 c		"	9	30'-5 1/2"	3	3	9	274.1		
4-4B		Abut No.1 Bracket	4	0'-10"	3	1	3	20.5		
4-4D	Straight	"	"	6'-0"	2	1	2	12.0		
4-50		"	"	12'-0"	2	2	4	48.0		
4-51		"	"	8'-0"	5	1	5	72.0		
4-52	Straight	"	"	4'-6"	3	1	3	13.5		
4-52 b	"	"	"	5'-3"	3	1	3	17.0		
4-57		"	"	10'-0"	3	1	3	30.0		
4-58		"	"	5'-9"	2	1	2	11.5		
4-82		Rocker- Girder Seat	"	3'-6"	3	12	36	126.0		
4-83		"	"	3'-0"	13	12	36	108.0		
4-85		"	"	6'-3"	2	12	24	180.0		

MK	DESCRIPTION	Location	Size	Length	No. of Bars in Ea. Unit	No. of Units	Total No. of Bars	Total Length	Wt. Per Ft.	Total Weight
			4					26,581.3	0.668	17,756
			5					13,220.0	1.043	13,790
			6					4,884.5	1.502	7,337
			7					2,708.4	2.044	5,530
			8					487.0	2.670	1,300
			9					684.7	3.400	2,328
			10					1,431.1	4.303	6,158
TOTAL ABUTMENT NO.1										54,214

CONTRACTOR'S NOTE

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All stirrup dimensions are to inside of stirrups; all other dimensions are figured to  of bars.

cut to out

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

UNIVERSITY AVE SEPARATION
Sta. 13+35.75 to Sta. 14+97.66

MAUKA ARTERIAL _____ FU 59 (3)

AUGUST, 1951

SHEET No. 6 OF 11 SHEETS

out to out

SHEET No. 6 OF 11 SHEETS

ORIGINAL PLAN	DESIGNED BY	DATE
NOTE BOOK	DRAWN BY	" "
	TRACED BY	" "
	QUANTITIES BY	" "
	QUANTITIES CHECKED BY	" "

NO. 156 ARKWRIGHT TRACING CLOTH
K & E CO., N. Y.

STEEL SCHEDULE

REV. June, 1952
Alignment of Abut #2 Wingwall revised.
Subsequent changes made as shown.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS

MK	DESCRIPTION	Location	Size	Length	No. of Bars in Ea. Unit	No. of Units	Total No. of Bars	Total Length	Wt. Per Ft.	Total Weight
4-00	Straight	Abut No2 Footing Type A Top Layer	4	6'-0"	2	1	2	12.0		
4-09	"	"	"	7'-0"	2	3	6	42.0		
4-135	"	"	"	16'-0"	46	1	46	736.0		
4-136	"	"	"	37'-7"	6	1	6	225.5		
4-137		"	"	14'-0 1/2"	6	1	6	88.8		
4-139		"	"	33'-2"	6	1	6	109.0		
4-151		"	"	7'-3"	2	1	2	14.5		
4-166	Straight	"	"	5'-0"	2	1	2	10.0		
5-60	"	"	5	6'-0"	4	4	16	96.0		
5-80	"	"	"	37'-7"	4	1	4	150.3		
5-81		"	"	14'-0 1/2"	4	1	4	59.2		
5-83		"	"	33'-2"	4	1	4	132.7		
5-84		"	"	4'-0"	4	1	4	19.0		
6-10	Straight	"	6	6'-0"	20	1	20	120.0		
6-19	"	"	"	37'-0"	4	1	4	151.0		
6-20		"	"	14'-0 1/2"	4	1	4	59.2		
6-22		"	"	33'-2"	4	1	4	132.7		
6-23		"	"	4'-0"	3	1	3	14.2		
4-09	Straight	Abut No2 Footing Type A Bottom Layer	4	7'-0"	3	4	12	224.0		
4-137	"	"	"	10'-11"	12	1	12	131.0		
4-139		"	"	37'-2"	12	1	12	446.0		
4-140		"	"	4'-0"	3	1	3	12.0		
4-150		"	"	0'-3"	9	1	9	83.2		
4-172		"	"	42'-7"	14	1	14	596.2		
5-60	Straight	"	5	6'-0"	8	1	8	48.0		
5-80		"	"	42'-7"	1	1	1	42.6		
5-81	Straight	"	"	10'-0 1/2"	2	1	2	21.6		

MK	DESCRIPTION	Location	Size	Length	No. of Bars in Ea. Unit	No. of Units	Total No. of Bars	Total Length	Wt. Per Ft.	Total Weight
5-85		Abut No2 Footing Type A Bottom Layer	5	37'-2"	2	1	2	74.3		
5-84		"	"	4'-0"	2	1	2	9.5		
5-92	Straight	"	"	16'-0"	49	1	49	784.0		
5-93	"	"	"	11'-6"	44	1	44	506.0		
5-94	"	"	"	7'-0"	41	1	41	287.0		
6-10	"	"	6	6'-0"	4	1	4	24.0		
4-00	Straight	Abut No2 Footing Type B Top Layer	4	6'-0"	6	1	6	36.0		
4-09	"	"	"	7'-0"	2	1	2	14.0		
4-130	"	"	"	14'-6"	32	1	32	464.0		
4-131	"	"	"	28'-0"	8	1	8	224.0		
4-132		"	"	28'-0"	8	1	8	230.0		
4-133		"	"	8'-3"	2	1	2	16.5		
4-134	Straight	"	"	5'-0"	2	1	2	10.0		
5-60	"	"	5	6'-0"	3	3	9	54.0		
5-77	"	"	"	28'-0"	3	1	3	84.8		
5-78		"	"	28'-0"	3	1	3	86.2		
5-79	Straight	"	"	3'-3"	3	1	3	9.8		
6-10	"	"	6	6'-0"	3	1	3	18.0		
7-14	"	"	7	6'-0"	3	3	9	54.0		
7-15	"	"	"	28'-0"	4	1	4	112.0		
7-16		"	"	28'-0"	4	1	4	115.0		
8-5	Straight	"	8	6'-0"	3	1	3	18.0		
4-00	Straight	Abut No2 Footing Type B Bottom Layer	4	6'-0"	2	2	4	60.0		
4-09	"	"	"	7'-0"	4	1	4	56.0		
4-131	"	"	"	28'-0"	6	1	6	168.0		
4-147	"	"	"	39'-6"	2	1	2	79.0		

MK	DESCRIPTION	Location	Size	Length	No. of Bars in Ea. Unit	No. of Units	Total No. of Bars	Total Length	Wt. Per Ft.	Total Weight
4-148	Straight	Abut No2 Footing Type B Bottom Layer	4	6'-6" Ave	2	1	2	13.0		
4-168		"	"	10'-0"	7	1	7	70.0		
4-171	Straight	"	"	29'-0"	8	1	8	190.0		
5-60	"	"	5	6'-0"	33	1	33	198.0		
5-77	"	"	"	28'-0"	4	1	4	112.0		
5-78	"	"	"	23'-0"	4	1	4	95.0		
5-79	"	"	"	3'-3"	3	1	3	9.8		
5-88	"	"	"	14'-6"	26	1	26	377.0		
5-89	"	"	"	8'-6"	27	1	27	229.5		
5-90	"	"	"	7'-0"	3	1	3	21.0		
6-10	"	"	6	6'-0"	8	1	8	48.0		
6-27	"	"	"	28'-0"	2	1	2	56.0		
6-28	"	"	"	23'-0"	2	1	2	47.5		
7-17	"	"	7	7'-0"	2	1	2	14.0		
4-00	Straight	Abut No2 Footing Type C Top Layer	4	6'-0"	4	4	16	96.0		
4-09	"	"	"	7'-0"	4	1	4	28.0		
4-140		"	"	3'-0"	4	1	4	15.0		
4-141		"	"	14'-0" Ave	4	1	4	59.0		
4-142		"	"	22'-0" Ave	9	1	9	344.3		
4-143		"	"	25'-0" Ave	2	1	2	88.2		
4-144	Straight	"	"	19'-0"	17	1	17	1,140.0		
4-145	"	"	"	36'-6"	43	1	43	603.0		

CONTRACTOR'S NOTE

This steel schedule is subordinate to details shown on the plans. In case of discrepancy between steel list and detail drawings the latter shall govern.

The Territorial Highway Dept. does not assume responsibility for any errors that may occur in the steel schedule. Contractor shall check steel before placing order.

All stirrup dimensions are to inside of stirrups; all other dimensions are figured to out to out of bars.

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

UNIVERSITY AVE. SEPARATION

Sta. 13+35.75 to Sta. 14+97.65

MAUKA ARTERIAL ——— FU 59(3)

August, 1951

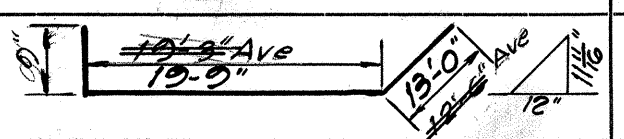
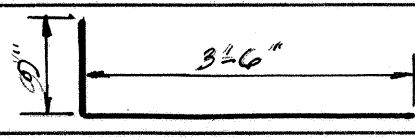
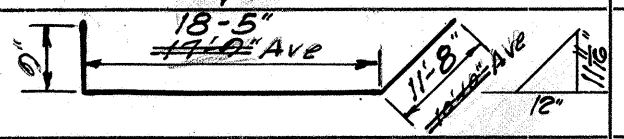
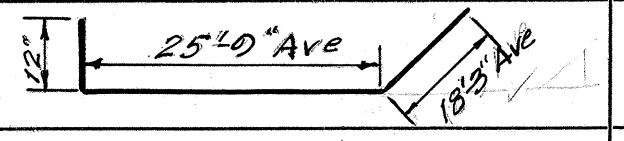
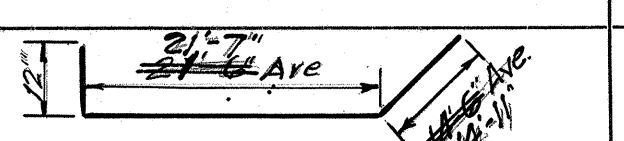
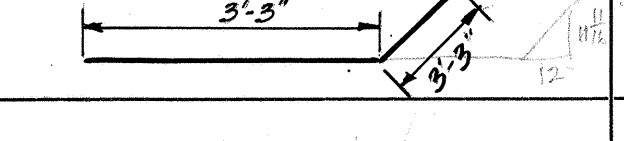
SHEET No. 7 OF 11 SHEETS

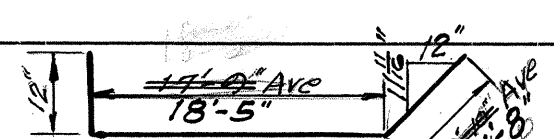
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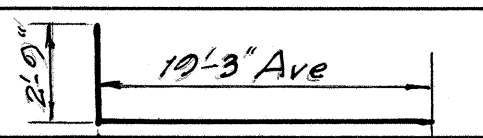
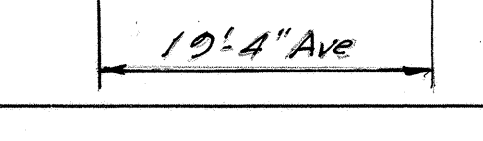
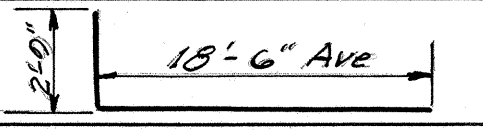
STEEL SCHEDULE

Fig. 3 Abut. #2 Right Wing - Revised
Subsequent changes made as shown
Rev. June, 1952

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS

MK	DESCRIPTION	Location	Size	Length	No. of Bars in Ea. Unit	No. of Units	Total No. of Bars	Total Length	Wt. Per Ft.	Total Weight
4-146	Straight	Abut No. 2 Footing Type C Top Layer	4	11'-3" Ave	3	1	3	20.0		
5-60	"	"	5	6'-0"	3	5	15	90.0		
5-85	"	"	"	3'-6"	3	1	3	10.5		
5-86		"	"	33'-6" Ave	3	1	3	100.5		
5-87	Straight	"	"	36'-6"	6	1	6	219.0		
6-10	"	"	6	6'-0"	3	5	15	90.0		
6-15	"	"	"	8'-0"	3	3	9	72.0		
6-16	"	"	"	5'-0"	3	3	9	45.0		
6-24		"	"	4'-3"	3	1	3	12.8		
6-25	Straight	"	"	6'-6"	4	1	4	26.0		
6-26	"	"	"	7'-0"	4	2	8	56.0		
7-17	"	"	7	7'-0"	3	4	12	84.0		
7-18		"	"	30'-10" Ave	4	1	4	123.3		
7-19	Straight	"	"	36'-6"	8	1	8	292.0		
4-90	Straight	Abut No. 2 Footing Type C Bottom Layer	4	6'-0"	3	1	3	162.0		
4-99	"	"	"	7'-0"	3	4	12	84.0		
4-143		"	"	45'-0" Ave	3	1	3	135.0		
4-145	Straight	"	"	36'-6"	18	1	18	657.0		
4-152		"	"	37'-6" Ave	12	1	12	450.0		
4-153		"	"	6'-6"	2	1	2	13.0		
4-173	Straight	"	"	30'-5"	6	1	6	182.5		
4-174	" + (1'-3") Lap	"	"	43'-8"	6	1	6	262.0		
5-87	"	"	5	30'-5"	4	1	4	121.7		
5-87	" + (1'-3") Lap	"	"	43'-8"	4	1	4	174.7		
5-90	"	"	"	7'-0"	3	4	12	84.0		
5-97	"	"	"	19'-0"	11	1	11	1026.0		
5-98	"	"	"	13'-3"	10	1	10	675.8		
5-99	"	"	"	8'-3"	9	1	9	371.2		

MK	DESCRIPTION	Location	Size	Length	No. of Bars in Ea. Unit	No. of Units	Total No. of Bars	Total Length	Wt. Per Ft.	Total Weight
5-100		Abut No. 2 Footing Type C Bottom Layer	5	20'-0" Ave	4	1	4	124.3		
5-101	Straight	"	"	20'-0" Ave	8	1	8	160.0		
5-102	"	"	"	11'-0" Ave	12	1	12	141.0		
5-103	"	"	"	7'-10" Ave	24	1	24	183.0		
6-26	"	"	6	7'-0"	3	1	3	105.0		
4-90	"	Abut Stem Rear Face Type A	4	6'-0"	6	3	18	196.0		
4-92	"	"	"	36'-8"	4	1	4	146.7		
4-93	"	"	"	35'-0"	5	1	5	178.8		
4-96	"	"	"	19'-3" Ave	27	1	27	512.8		
4-97	"	"	"	19'-4" Ave	18	1	18	348.0		
4-117	"	"	"	18'-0" Ave	2	1	2	37.5		
4-117	"	"	"	10'-0"	2	1	2	20.0		
5-60	"	"	5	6'-0"	5	8	40	312.0		
5-62	"	"	"	36'-8"	10	1	10	366.7		
5-63	"	"	"	35'-0"	12	1	12	429.0		
5-63	"	"	"	34'-6"	2	1	2	69.0		
6-10	"	"	6	6'-0"	40	1	40	240.0		
6-12	"	"	"	36'-8"	4	1	4	146.7		
4-96	"	Abut Stem Front Face Type A	4	19'-3" Ave	2	4	8	154.0		
4-97	"	"	"	19'-4" Ave	2	2	4	77.3		
4-99	"	"	"	7'-0"	5	7	35	511.0		
4-100	"	"	"	5'-0"	2	1	2	25.0		
4-102	" + (1'-3") Lap	"	"	44'-1"	15	1	15	661.2		
4-103	"	"	"	16'-3" Ave	2	1	2	32.5		
4-104	"	"	"	37'-3"	3	1	3	111.8		
4-105	" + (1'-3") Lap	"	"	43'-0"	16	1	16	688.0		
4-106	"	"	"	24'-3"	1	1	1	24.2		

MK	DESCRIPTION	Location	Size	Length	No. of Bars in Ea. Unit	No. of Units	Total No. of Bars	Total Length	Wt. Per Ft.	Total Weight
4-107	Straight	Abut Stem Front Face Type A	4	32'-6"	2	1	2	65.0		
4-111		"	"	22'-6" Ave	27	1	27	504.0		
4-112		"	"	22'-1" Ave	18	1	18	397.5		
4-90	Straight	Abut Stem Rear Face Type B	4	6'-0"	6	2	12	72.0		
4-91	"	"	"	24'-2"	5	1	5	120.8		
4-91	"	"	"	14'-0"	1	1	1	14.0		
4-95	"	"	"	13'-6" Ave	12	1	12	222.0		
5-60	"	"	5	6'-0"	5	2	10	132.0		
5-61	"	"	"	24'-2"	12	1	12	290.0		
4-95	"	Abut Stem Front Face Type B	4	18'-6" Ave	2	2	4	74.0		
4-99	"	"	"	7'-0"	5	1	5	77.0		
4-101	"	"	"	18'-2"	17	1	17	308.8		
4-101	"	"	"	8'-0"	1	1	1	8.0		
4-110		"	"	21'-3" Ave	13	1	13	276.2		
4-90	Straight	Abut Stem Rear Face Type C	4	6'-0"	6	2	12	138.0		
4-94	"	"	"	25'-6"	5	1	5	127.5		
4-98	"	"	"	27'-0" Ave	11	1	11	297.0		
5-60	"	"	5	6'-0"	5	3	15	216.0		
5-64	"	"	"	25'-6"	12	1	12	306.0		
5-65	"	"	"	19'-3"	4	1	4	77.0		

CONTRACTOR'S NOTE

This steel schedule is subordinate to details shown on the plans. In case of discrepancy between steel list and detail drawings the latter shall govern.

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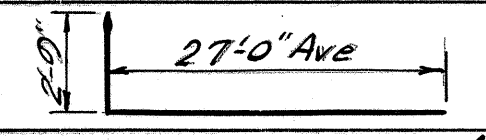
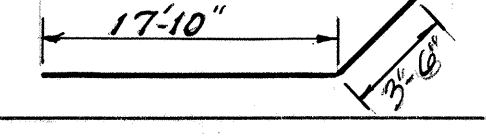
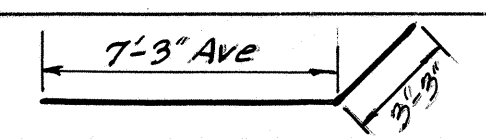
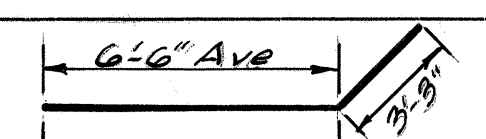
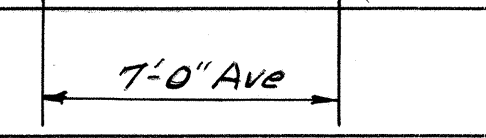
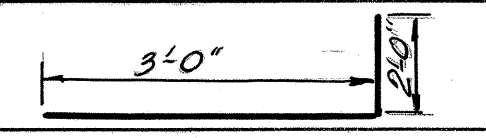
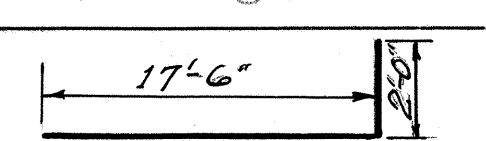
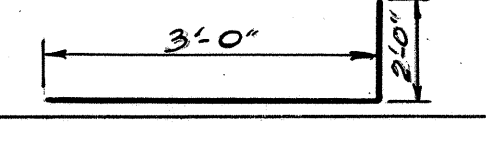
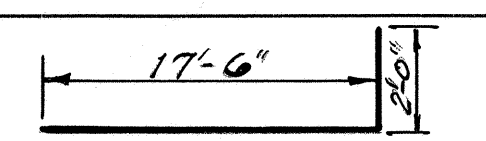
All stirrup dimensions are to inside of stirrups; all other dimensions are figured to out to out of bars.

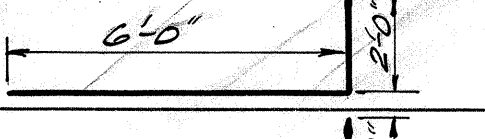
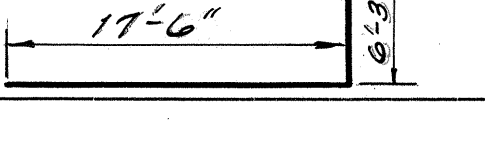
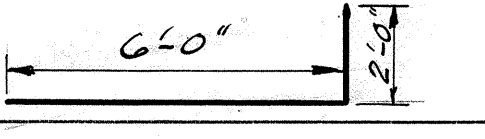
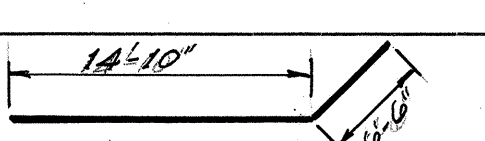
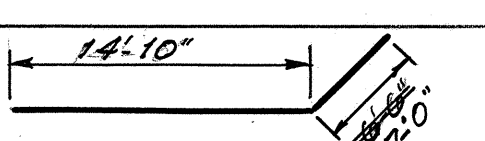
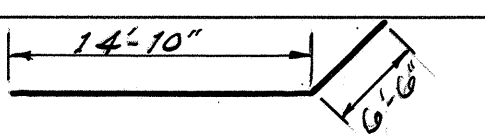
TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
UNIVERSITY AVE. SEPARATION
Sta. 13+35.76 to Sta. 14+07.22
MAUKA ARTERIAL FU 59(3)
August, 1951

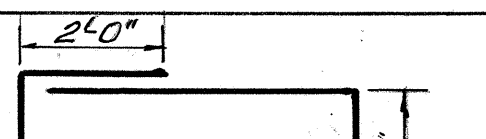
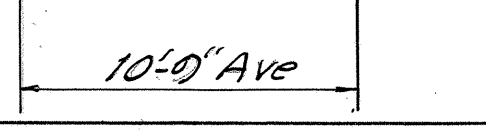
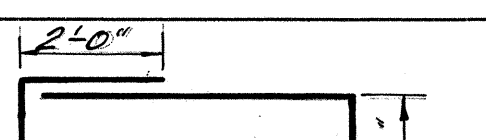
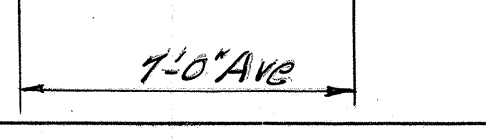
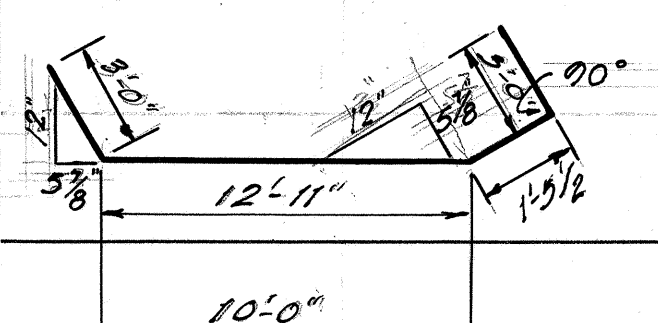
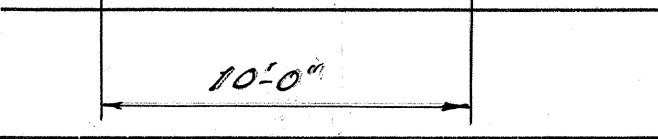
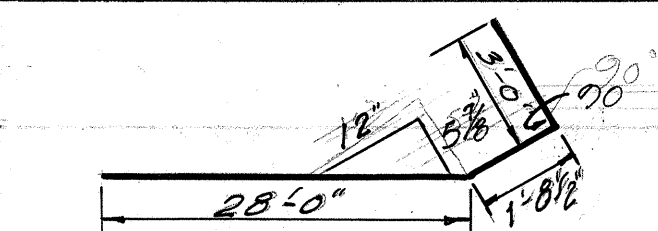
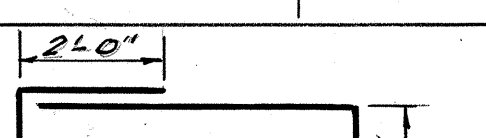
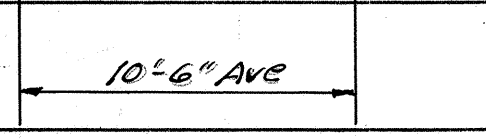
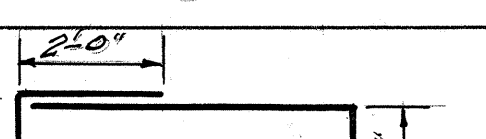
STEEL SCHEDULE

REV. June, 1952
Alignment of Abut. #2 Right N.N. revised.
Subsequent changes made as shown.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS

MK	DESCRIPTION	Location	Size	Length	No. of Bars in Ea. Unit	No. of Units	Total No. of Bars	Total Length	Wt. Per Ft.	Total Weight
G-11	Straight	Abut. Stem Rear Face Type C	6	3'-6"	8	1	8	28.0		
G-13	"	"	"	10'-3"	5	1	5	96.2		
4-98	"	Abut. Stem Front Face Type C	4	27'-0" Ave	2	3	6	162.0		
4-99	"	"	"	7'-0"	6 10 5	2 2 2	12 20 10	204.0		
4-108	"	"	"	24'-6"	26	1	26	637.0		
4-108	"	"	"	17'-0"	26	1	26	461.5		
4-109	"	"	"	17'-0"	1	1	1	17.0		
4-113		"	"	20'-0" Ave	12	1	12	357.0		
4-114		"	"	21'-4"	5	1	5	106.7		
4-32		Abut. Stem Both Faces Type B & C	4	10'-6" Ave	2 2	1 1	2 2	42.0		
4-36	Straight	Type B & C	"	7'-0" Ave	2	2	4	31.0		
4-50	"	Type A, B & C	"	7'-0" Ave	51 50	1 1	51 50	707.0		
4-59	"	Type A	"	7'-6"	13	1	13	97.5		
4-60		Type A, B & C	"	9'-0" Ave	51 50	1 1	51 50	984.8		
4-60		Type A & C	"	10'-3" Ave	13	1	13	193.2		
4-66	Straight + (1'-3") Lap	Type B & C	"	60'-3" Ave	11	1	11	662.8		
4-66	" + (1'-3") Lap	Type B & C	"	62'-0" Ave	11	1	11	682.0		
4-90	Straight	Left Wing Wall Rear Face	4	6'-0"	10 10	2 1	20 10	180.0		
4-123		"	"	5'-0"	10	1	10	50.0		
4-124	Straight	"	"	10'-8"	10	1	10	196.7		
4-125		"	"	19'-6"	10	1	10	195.0		
4-126	Straight	"	"	25'-1" Ave	25	1	25	627.1		
5-60	"	"	"	6'-0"	5 5	2 1	10 5	90.0		
5-72		"	"	5'-0"	12	1	12	60.0		
5-73	Straight	"	"	19'-8"	13	1	13	255.7		
5-74		"	"	19'-6"	13	1	13	253.5		

MK	DESCRIPTION	Location	Size	Length	No. of Bars in Ea. Unit	No. of Units	Total No. of Bars	Total Length	Wt. Per Ft.	Total Weight
G-10	Straight	Left Wing Wall Rear Face	6	6'-0"	7 7	2 1	14 7	126.0		
4-90	"	Left Wing Wall Front Face	4	6'-0"	12	1	12	72.0		
4-124	"	"	"	10'-8"	18	1	18	954.0		
4-126	"	"	"	25'-1" Ave	32	1	32	802.7		
4-127	"	"	"	9'-0"	16	1	16	90.0		
4-128		"	"	8'-0"	15	1	15	120.0		
4-129		"	"	23'-0"	23	1	23	546.2		
5-15	Straight	"	"	9'-0"	7	1	7	63.0		
5-96		"	"	8'-0"	7	1	7	56.0		
4-90	Straight	Right Wing Wall Rear Face	4	6'-0"	14	1	14	336.0		
4-99	"	"	"	7'-0"	7	3	21	147.0		
4-116	"	"	"	32'-7" Ave	57	1	57	1,857.2		
4-119		"	"	21'-4"	11	1	11	234.7		
4-121	Straight	"	"	36'-6"	14	2	28	1,022.0		
5-60	"	"	"	6'-0"	5	4	20	120.0		
5-67	"	"	"	8'-0"	11	1	11	88.0		
5-68	"	"	"	5'-0"	7	1	7	35.0		
5-69		"	"	21'-10" Ave	16	1	16	349.3		
5-70	Straight	"	"	36'-6"	5	2	10	365.0		
G-10	"	"	"	6'-0"	5 6	4 4	20 24	264.0		
G-15	"	"	"	8'-0"	13 6	1 2	13 12	200.0		
G-16	"	"	"	5'-0"	8 6	1 2	8 12	100.0		
G-17		"	"	21'-4"	5	1	5	106.7		
G-18	Straight	"	"	36'-6"	12	2	24	876.0		
G-26	"	"	"	7'-0"	7	2	14	98.0		
7-17	"	"	"	7'-0"	10	1	10	70.0		
8-8	"	"	"	7'-0"	10	1	10	70.0		

MK	DESCRIPTION	Location	Size	Length	No. of Bars in Ea. Unit	No. of Units	Total No. of Bars	Total Length	Wt. Per Ft.	Total Weight
4-90	Straight	Right Wing Wall Front Face	4	7'-0"	21 5 6 7	1 10 5 3	21 50 30 35	952.0		
4-115	"	"	"	30'-6"	28	1	28	854.0		
4-116	"	"	"	32'-7" Ave	57	1	57	1,857.2		
4-120	" + (1'-3") Lap	"	"	43'-0"	28	1	28	1,223.0		
4-60		Abut. No. 2 Counterforts 1-2-3	4	15'-4" Ave	16 3	3 48	48	736.0		
5-38		"	"	27'-4" Ave	8	3	24	656.0		
5-39	Straight	"	"	18'-0"	2	3	6	78.0		
6-9		"	"	41'-10" Ave	8	3	24	1,004.0		
7-13		"	"	10'-10" Ave	4	3	12	232.0		
8-2		"	"	20'-4 1/2"	1	3	3	61.1		
8-3		"	"	17'-5 1/2"	2	3	6	104.8		
9-3		"	"	32'-0 1/2"	3	3	9	294.4		
4-60		Counterforts 4-5	4	17'-2" Ave	10 2	20	20	343.3		
5-38		"	"	26'-10" Ave	8	2	16	420.3		
5-39	Straight	"	"	13'-0"	2	2	4	52.0		
6-9		"	"	30'-4" Ave	8	2	16	620.3		

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All stirrup dimensions are to inside of stirrups; all other dimensions are figured to  of bars.
out to out

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

UNIVERSITY AVE. SEPARATION

Sta. 137+35.2 to Sta. 14+07.66

MAUKA ARTERIAL FU59(3)

August, 1951

SHEET No. 9 OF 11 SHEETS

STEEL SCHEDULE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
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MK	DESCRIPTION	Location	Size	Length	No. of Bars in Ea. Unit	No. of Units	Total No. of Bars	Total Length	Wt. Per Ft.	Total Weight
7-19 c		Counterforts 4-5	7	17'-10" Ave	4	2	8	142.7		
8-2 e			8	20'-6 1/2"	1	2	2	41.1		
8-3 e				17'-1 1/2"	2	2	4	70.5		
9-3 e			9	20'-10 1/2"	3	2	6	173.2		
4-67 e		Counterforts 6-7	4	40'-4" Ave	4	2	8	304.7		
4-68 e				16'-4" Ave	8	2	16	261.3		
5-36 e			5	27'-4" Ave	12	2	24	656.0		
5-37	Straight			14'-0"	2	2	4	56.0		
6-8 e			6	38'-2" Ave	2	2	4	152.7		
7-12 e			7	21'-10" Ave	8	2	16	340.3		
10-8 e			10	30'-8 1/2" Ave	3	2	6	184.2		
10-9 e				23'-4 1/2"	1	2	2	46.8		
10-10 e				10'-11 1/2"	2	2	4	70.8		
4-67 f		Counterforts 8-9	4	47'-4" Ave	4	2	8	378.7		
4-68 f				16'-2" Ave	7	2	14	226.3		
5-36 f			5	27'-10" Ave	12	2	24	668.0		
5-37	Straight			14'-0"	2	2	4	56.0		
6-8 f			6	36'-10" Ave	2	2	4	147.3		
7-12 f			7	21'-6" Ave	8	2	16	344.0		

MK	DESCRIPTION	Location	Size	Length	No. of Bars in Ea. Unit	No. of Units	Total No. of Bars	Total Length	Wt. Per Ft.	Total Weight
10-8 f		Counterforts 8-9	10	20'-8 1/2"	3	2	6	178.2		
10-9 f				23'-5 1/2"	1	2	2	46.0		
10-10 f				20'-0 1/2"	2	2	4	80.2		
4-67 3		Counterforts 10-11	4	45'-10" Ave	4	2	8	366.7		
4-68 3				16'-4" Ave	8	2	16	261.3		
5-36 3			5	27'-4" Ave	12	2	24	656.0		
5-37	Straight			14'-0"	2	2	4	56.0		
6-8 3			6	37'-10" Ave	2	2	4	151.3		
7-12 3			7	21'-4" Ave	8	2	16	341.3		
10-8 3			10	30'-8 1/2"	3	2	6	184.2		
10-9 3				23'-5 1/2"	1	2	2	46.0		
10-10 3				20'-2 1/2"	2	2	4	80.8		
5-108		Counterfort 12	5	11'-5"	1	1	1	11.4		
5-109	Straight			7'-6"	2	2	4	30.0		
5-110				20'-5"	3	1	3	88.2		
6-33			6	11'-5"	3	1	3	34.2		
6-34				20'-5"	3	1	3	88.2		
7-23			7	30'-4" Ave	4	1	4	121.3		
8-0			8	18'-6" Ave	6	1	6	111.0		
4-155 8		Counterforts 12-13	4	57'-10" Ave	7	2	14	800.7		

MK	DESCRIPTION	Location	Size	Length	No. of Bars in Ea. Unit	No. of Units	Total No. of Bars	Total Length	Wt. Per Ft.	Total Weight
4-156 8		Counterforts 12-13	4	16'-6" Ave	8	2	16	264.0		
5-104 8			5	30'-4" Ave	23	2	46	1305.3		
5-105 8	Straight			17'-0"	2	2	4	71.0		
6-29 8			6	40'-6" Ave	2	2	4	162.0		
7-20 8			7	21'-10" Ave	10	1	10	218.3		
9-4 8			9	21'-3 1/2"	3	2	6	127.8		
10-11 8			10	38'-2 1/2"	3	2	6	220.2		
10-12 8				30'-0 1/2"	1	2	2	60.1		
10-13 8				26'-0"	2	2	4	104.0		
4-157		Counterfort 14	4	55'-0" Ave	7	1	7	385.0		
4-158				10'-2" Ave	8	1	8	153.3		
5-106			5	34'-4" Ave	23	1	23	780.7		
5-107	Straight			19'-0"	2	1	2	38.0		
6-30			6	37'-6" Ave	2	1	2	75.0		
7-21			7	21'-6" Ave	7	1	7	150.5		

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TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

UNIVERSITY AVE. SEPARATION

Sta. 13+35.00 to Sta. 14+07.00

MAUKA ARTERIAL FU5D(3)

August, 1951

SHEET No. 10 OF 11 SHEETS

REV. June, 1952
Alignment of Abut. #2 W.W. revised.
Subsequent changes made as shown.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS

ORIGINAL PLAN	DESIGNED BY	DATE
NOTE BOOK	DRAWN BY	"
	TRACED BY	"
	QUANTITIES BY	"
	QUANTITIES CHECKED BY	"
No.	CHECKED BY	"

4-95 12' 6 ave

~~307,123~~ #
307,151 #

All stirrup dimensions are to inside of stirrups; all other dimensions are figured to **center** of bars.
out to out

SHEET No. 11 OF 11 SHEETS

STEEL SCHEDULE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS

MK	DESCRIPTION	Location	Size	Length	No. of Bars in Ea. Unit	No. of Units	Total No. of Bars	Total Length	Wt. Per Ft.	Total Weight
5-6a		DECK	5	58'-2 1/2" ave.	4	1	4	232.8		
5-6b		DECK	5	46'-9 1/2" ave.	6	1	6	280.8		
5-6c		DECK	5	37'-5 1/2" ave.	4	1	4	149.8		
5-6d			5	28'-7 1/2" ave.	6	1	6	171.8		
5-6e			5	19'-9 1/2" ave.	4	1	4	79.2		
5-8			5	11'-4" ave.	8	1	8	90.7		
5-8a			5	6'-0" ave.	8	1	8	48.0		
5-7a			5	34'-10" ave.	24	1	24	836.0		
5-7			5	59'-9" ave.	28	1	28	1673.0		
5-6		DECK	5	63'-0" ave.	26	1	26	1638.0		
5-10			5	43'-11" ave.	30	1	30	1317.5		
5-1			5	8'-0" ave.	6	1	6	48.0		
5-11a			5	30'-4" ave.	24	1	24	728.0		
5-11b			5	8'-3" ave.	4	1	4	33.0		
5-11			5	53'-5" ave.	28	1	28	1495.7		
5-12			5	9'-6" ave.	10	1	10	95.0		
4-9			4	43'-11" ave.	28	1	28	1229.7		
6-1		TRANS. BEAM "A"	6	54'-4" ave.	8	1	8	434.7		
4-22			4	7'-0" ave.	31	2	62	434.0		
4-17			4	4'-0" ave.	4	2	8	32.0		
4-18		TRANS. BEAM "B"	4	8'-11 1/2" ave.	31	1	31	277.7		
7-1			7	52'-2" ave.	6	1	6	313.0		
4-15		GIRDER	4	43'-8" ave.	2	7	14	611.3		

MK	DESCRIPTION	Location	Size	Length	No. of Bars in Ea. Unit	No. of Units	Total No. of Bars	Total Length	Wt. Per Ft.	Total Weight
4-16		GIRDER	4	8'-1" ave.	42	7	294	2,376.5		
11-1			11	43'-8" ave.	4	7	28	1,222.7		
11-2			11	47'-5" ave.	2	7	14	663.8		
11-3			11	45'-7" ave.	2	7	14	638.2		
11-4			11	38'-2" ave.	2	7	14	534.3		
11-5			11	33'-2" ave.	2	7	14	464.3		
			4				4,961.2	0668	3314	
			5				8,917.3	1043	9301	
			6				434.7	1502	653	
			7				313.0	2044	640	
			11				3523.3	5313	18,719	
	TOTAL SUPERSTRUCTURE								32,627	
	ABUTMENT #1									
4-11		TOP STEM	4	5'-0" ave.	41	1	41	2050		
4-11a			4	5'-6" ave.	9	2	18	990		
4-12			4	7'-0" ave.	41	1	41	2870		
4-12a			4	7'-6" ave.	9	2	18	1350		
4-31			4	10'-4" ave.	39	1	39	4030		
4-1			4	4'-2" ave.	4	7	28	116.7		
4-27			4	6'-0" ave.	1	7	7	42.0		

MK	DESCRIPTION	Location	Size	Length	No. of Bars in Ea. Unit	No. of Units	Total No. of Bars	Total Length	Wt. Per Ft.	Total Weight
4-2		TOP STEM	4	3'-2" ave.	4	7	28	88.7		
11-6		BEARING	11	4'-0" ave.	3	7	21	84.0		
7-2			7	63'-0" ave.	8	1	8	504.0		
4-3			4	63'-0" ave.	10	1	10	1,197.0		
4-4			4	18'-10" ave.	63	1	63	1,261.8		
4-21			4	2'-6" ave.	80	1	80	2200		
4-25			4	23'-4" ave.	4	2	8	186.7		
4-29			4	10'-6" ave.	2	2	4	42.0		
4-30			4	4'-0" ave.	2	2	4	16.0		
4-23		WALL ENDPOST RETURN	4	11'-5" ave.	3	2	6	68.5		
4-24			4	13'-3" ave.	4	2	8	106.0		
4-28			4	10'-9" ave.	9	2	18	193.5		
4-20			4	4'-0" ave.	37	2	74	2960		
4-19			4	3'-10" ave.	19	5	95	364.2		
			4				5,032.1	0668	3,361.4	
			7				504.0	2.04	1,028.2	
			11				84.0	5.31	446.0	
	TOTAL ABUTMENT #1								4835.6	

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TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

OLD WAIALAE ROAD SEPARATION

MAUKA ARTERIAL U59(3)

AUGUST, 1951

SHEET No. 1 OF 2 SHEETS

DESIGNED BY A. Ching
DRAWN BY
CHECKED BY
DATE 9-24-51
ORIGINAL PLAN
NOTE BOOK
QUANTITIES CHECKED BY

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS

[illegible]

PLAN	DRAWN BY <i>A. Ching</i>	" 9-24-51
NOTE BOOK	TRACED BY	" "
	QUANTITIES BY	" "
	QUANTITIES CHECKED BY	" "
No.	CHECKED BY	" "

NO. 155 ARKWRIGHT TRACING CLOTH
K & E CO., N. Y.

All stirrup dimensions are to inside of stirrups; all other dimensions are figured to ~~center line~~ *out to out* of bars.

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

OLD WAIALAE ROAD SEPARATION

MAUKA ARTERIAL U59(3)

AUGUST, 1951

SHEET No. 2 OF 2 SHEETS

STEEL SCHEDULE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS

MK	DESCRIPTION	Location	Size	Length	No. of Bars in Ea. Unit	No. of Units	Total No. of Bars	Total Length	Wt. Per Ft.	Total Weight
4-41		Girder	4	7'-7 1/2"	50	12	600	4,515.0		
4-48		"	"	42'-4"	2	12	24	1,016.0		
4-51		"	"	7'-4 1/2"	39	2	78	5,153		
4-52		"	"	42'-4"	2	2	4	169.3		
10-6		"	10	29'-2"	2	12	24	700.0		
10-7		"	"	34'-2"	2	12	24	820.0		
10-8		"	"	43'-1"	1	2	2	86.2		
10-9		"	"	44'-3 1/2"	2	2	4	177.2		
11-4		"	11	43'-1"	2	12	24	1,034.0		
11-3		"	"	42'-3"	4	12	48	2,028.0		
11-5		"	"	44'-3 1/2"	2	12	24	1,063.0		
11-6		"	"	42'-3"	3	2	6	253.5		
5-3		Deck	5	52'-11"	38	2	76	4,021.7		
5-4		"	"	56'-13 1/4"	36	2	72	4,042.5		
5-5		"	"	49'-7"	38	2	76	3,768.3		
5-6		"	"	40'-0"	30	2	60	2,400.0		

MK	DESCRIPTION	Location	Size	Length	No. of Bars in Ea. Unit	No. of Units	Total No. of Bars	Total Length	Wt. Per Ft.	Total Weight
5-7		Deck	5	6'-6"	11	2	22	143.0		
4-54		"	4	42'-4"	25	2	50	2,116.7		
4-53		Trans.Bm."A"	"	5'-10"	30	4	120	700.0		
6-5		"	6	49'-8"	4	4	16	794.7		
4-56		Trans.Bm."B"	4	8'-5 1/2"	30	2	60	507.5		
7-8		"	7	49'-8"	6	2	12	596.0		
			4					9,659.8	0.668	6,453
			5					14,375.5	1.043	14,994
			6					794.7	1.502	1,194
			7					596.0	2.044	1,218
			10					1,783.4	4.303	7,674
			11					4,378.5	5.313	23,263
	TOTAL SUPERSTRUCTURE									54,796
4-1		Abut. #1 footing	4	54'-3"	12	2	24	1,302.0		
4-1a		"	"	56'-0"	2	2	4	224.0		
4-2		"	"	4'-5"	12	1	12	53.0		
4-3		"	"	3'-2 1/2"	12	1	12	38.5		
4-4		"	"	21'-7"	2	1	2	43.2		
4-5		"	"	21'-0"	3	1	3	63.0		
4-6		"	"	17'-6"	7	1	7	122.5		
4-6a		"	"	5'-0"	1	1	1	5.0		
4-7		"	"	14'-0"	4	1	4	56.0		
4-7a		"	"	11'-0"	2	2	4	44.0		
4-8		"	"	16'-8"	2	2	4	66.7		
4-9		"	"	15'-9"	2	1	2	31.5		
4-10		"	"	15'-6"	3	1	3	46.5		
4-11		"	"	12'-4"	7	1	7	86.3		
4-11a		"	"	5'-3"	1	1	1	5.3		

MK	DESCRIPTION	Location	Size	Length	No. of Bars in Ea. Unit	No. of Units	Total No. of Bars	Total Length	Wt. Per Ft.	Total Weight
4-12		Abut. #1 footing	4	9'-8"	2	2	4	38.7		
4-13		"	"	16'-9"	2	2	4	67.0		
4-14		"	"	14'-8"	4	1	4	58.7		
4-15		"	"	4'-8"	12	1	12	56.0		
4-57		"	"	3'-4"	11	1	11	36.7		
7-1		"	7	7'-3 1/2"	10	1	10	72.9		
7-2		"	"	4'-9 3/4"	9	1	9	43.3		
7-3		"	"	8'-1"	10	1	10	80.8		
7-4		"	"	5'-1"	10	1	10	50.8		
9-6		"	9	3'-5"	4	2	8	44.0		
10-1		"	10	11'-9"	7	2	14	164.5		
10-2		"	"	7'-9"	10	2	20	155.0		
10-3		"	"	12'-0 1/2"	13	1	13	156.5		
10-4		"	"	8'-6"	13	1	13	110.5		
10-5		"	"	12'-6 1/2"	8	1	8	100.3		
10-6		"	"	8'-6"	7	1	7	59.5		
11-1		"	11	14'-8"	54	2	108	1,584.0		
11-2		"	"	9'-8"	53	2	106	1,024.7		
4-27		Abut. #1 Wall	4	23'-5"	52	1	52	1,217.7		
4-28		"	"	21'-11"	52	1	52	1,139.7		
4-29		"	"	53'-3"	62	1	62	3,301.5		
4-30		"	"	8'-0 1/2"	9	1	9	72.4		
4-30a		"	"	7'-8"	38	1	38	291.3		

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TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

KALO LANE SEPARATION

Sta. 24+65.00 to Sta. 25+09.00

MAUKA ARTERIAL U59 (3)

October 1951

SHEET No. 1 OF 4 SHEETS

PLAN
DRAWN BY
CHECKED BY
NO.

STEEL SCHEDULE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS

MK	DESCRIPTION	Location	Size	Length	No. of Bars in Ea. Unit	No. of Units	Total No. of Bars	Total Length	Wt. Per Ft.	Total Weight
4-30 b		Abut #1 Wall	4	8'-3 1/2" Ave	10	1	10	82.9		
4-30 c		"	"	7'-8" Ave	38	1	38	291.3		
4-30 e		"	"	8'-1 1/2" Ave	7	1	7	56.8		
4-31		"	"	4'-9 1/2" Ave	9	1	9	43.1		
4-31 a		"	"	4'-5 1/2" Ave	38	1	38	169.4		
4-31 b		"	"	5'-0 1/2" Ave	10	1	10	50.4		
4-31 c		"	"	4'-5 1/2" Ave	38	1	38	169.4		
4-31 e		"	"	4'-10 1/2" Ave	7	1	7	34.1		
4-39		"	"	8'-11 1/2" Ave	37	1	37	331.5		
4-40		"	"	8'-4 1/2" Ave	4	2	8	67.0		
4-41	Straight	"	"	6'-6"	2	2	4	26.0		
4-42		"	"	10'-0" Ave	3	2	6	60.0		
4-91	Straight	"	"	22'-3"	2	1	2	44.5		
4-91 a	"	"	"	19'-1" Ave	2	1	2	38.2		
5-1		"	5	11'-3 1/2" Ave	3	2	6	67.8		
9-2		"	9	25'-3" Ave	52	1	52	1313.0		
9-3		"	"	18'-6" Ave	51	2	102	1887.0		
9-4		"	"	14'-6" Ave	51	2	102	1479.0		
9-8	Straight	"	"	24'-4 1/2" Ave	4	1	4	97.5		
9-8 a	"	"	"	21'-5 1/2" Ave	4	1	4	85.8		
9-12		"	"	23'-11" Ave	52	1	52	1243.7		
4-48		Abut #1 Conc. Seat	4	3'-6" Ave	4	14	56	196.0		
4-49		"	"	3'-1" Ave	4	14	56	172.7		
4-90		"	"	5'-2 1/2" Ave	1	14	14	72.9		

MK	DESCRIPTION	Location	Size	Length	No. of Bars in Ea. Unit	No. of Units	Total No. of Bars	Total Length	Wt. Per Ft.	Total Weight
4-17	Straight	Reting Wall #1 Stem	4	21'-4 1/2" Ave	12	1	12	256.5		
4-18	"	"	"	13'-9 1/2" Ave	7	1	7	96.5		
4-19		"	"	9'-0 1/2" Ave	16	1	16	144.7		
4-20	"	"	"	7'-2" Ave	11	1	11	78.8		
4-21		"	"	5'-11 1/2" Ave	15	1	15	89.4		
4-22	Straight	"	"	25'-2"	15	1	15	377.5		
4-23	"	"	"	18'-5" Ave	10	1	10	184.2		
4-24	"	"	"	31'-9" Ave	5	1	5	158.8		
4-25	"	"	"	11'-8"	6	1	6	70.0		
4-26	"	"	"	17'-8"	1	1	1	17.7		
6-1		"	6	15'-1" Ave	12	1	12	181.0		
6-2		"	"	9'-7" Ave	11	1	11	105.4		
7-4	Straight	"	7	8'-11" Ave	18	1	18	160.5		
7-5	"	"	"	16'-1 1/2" Ave	18	1	18	290.3		
9-1		"	9	13'-6 3/4" Ave	36	1	36	488.3		
4-32	Straight	#2 Stem	4	19'-10" Ave	8	1	8	158.7		
4-33	"	"	"	17'-3" Ave	9	1	9	155.3		
4-34	"	"	"	22'-2" Ave	13	1	13	288.2		
4-35	"	"	"	8'-0" Ave	4	1	4	32.0		
4-36	"	"	"	11'-8"	1	1	1	11.7		
4-37	"	"	"	13'-11" Ave	8	1	8	111.3		
4-43		"	"	5'-10" Ave	16	1	16	93.3		
4-44		"	"	8'-9 1/2" Ave	16	1	16	140.7		
4-45	Straight	"	"	7'-1" Ave	11	1	11	77.9		
4-46	"	"	"	32'-0"	4	1	4	128.0		
6-3		"	6	15'-7" Ave	12	1	12	187.0		
6-4		"	"	10'-5" Ave	11	1	11	114.6		
7-6	Straight	"	7	8'-8" Ave	12	1	12	104.0		
7-7	"	"	"	16'-2" Ave	12	1	12	194.0		

MK	DESCRIPTION	Location	Size	Length	No. of Bars in Ea. Unit	No. of Units	Total No. of Bars	Total Length	Wt. Per Ft.	Total Weight
9-5		Reting Wall #2 Stem	9	13'-10" Ave	24	1	24	932.0		
4-150		"	4	5'-0" Ave	4	6	24	120.0		
4-151	Straight	"	"	2'-0" Ave	4	6	24	48.0		
			4					13,212.5	0.668	8,826
			5					67.8	1.043	71
			6					588.0	1.502	883
			7					996.6	2.044	2,037
			9					6,970.3	3.4	23,699
			10					746.3	4.303	3,211
			11					2,608.7	5.313	13,860
TOTAL ABUTMENT NO.1										52,587
										52,586.3

CONTRACTOR'S NOTE

This steel schedule is subordinate to details shown on the plans. In case of discrepancy between steel list and detail drawings the latter shall govern.

The Territorial Highway Dept. does not assume responsibility for any errors that may occur in the steel schedule. Contractor shall check steel before placing order.

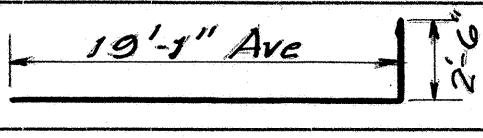
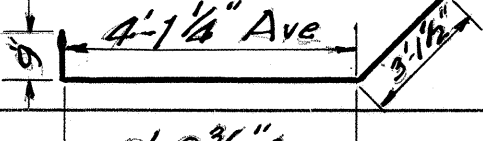
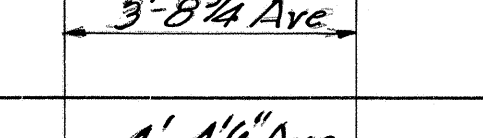
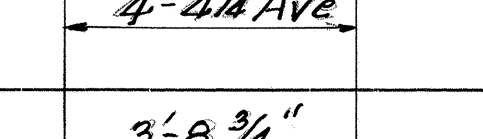
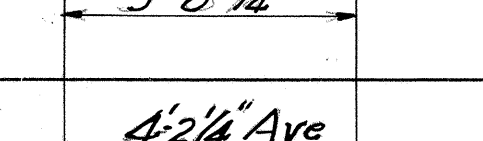
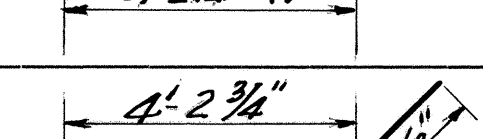
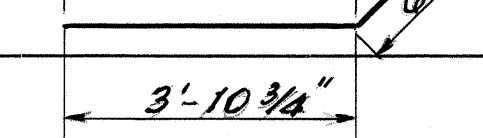
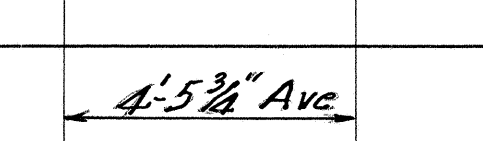
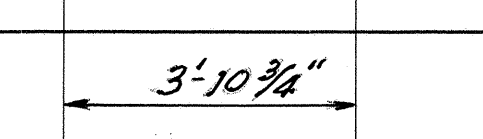
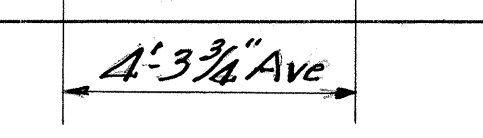
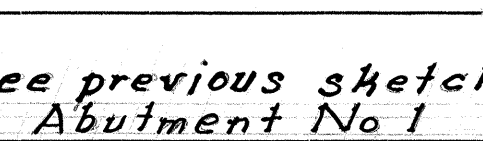
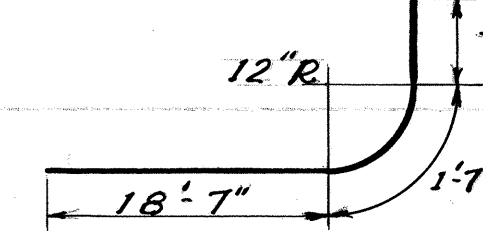
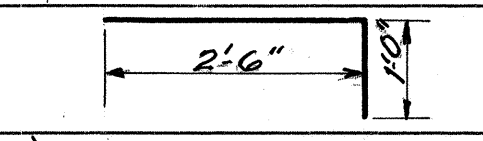
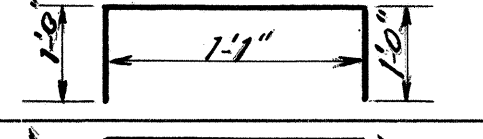
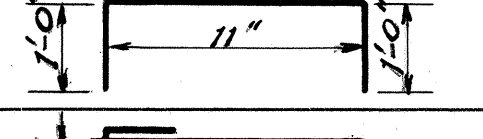
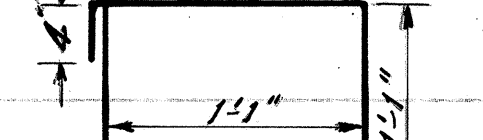
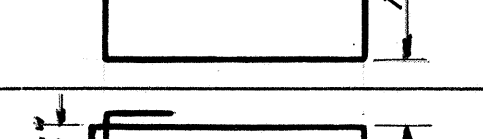
All stirrup dimensions are to inside of stirrups; all other dimensions are figured to centerline of bars.

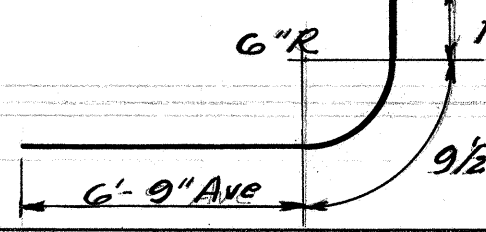
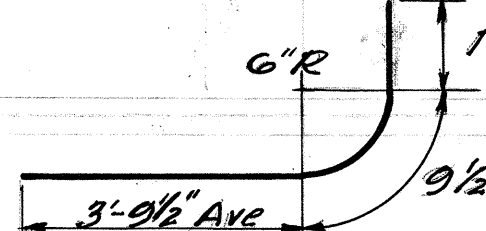
TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
KALO LANE SEPARATION
Sta. 24+65.00 to Sta. 25+09.00
MAUKA ARTERIAL U59 (3)
October 1951

STEEL SCHEDULE

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS

MK	DESCRIPTION	Location	Size	Length	No. of Bars in Ea. Unit	No. of Units	Total No. of Bars	Total Length	Wt. Per Ft.	Total Weight
4-1	See previous sketch Abutment No 1	Abut No 2 footing	4	54'3"	2 10	2 2	4 20	1302.0		
4-1a	"	"	"	56'0"	2	2	4	224.0		
4-2	Straight	"	"	4'6 1/2" Ave	15	1	15	68.1		
4-3	"	"	"	3'3 1/2" Ave	14	1	14	46.1		
4-4	See previous sketch Abutment No 1	"	"	21'7"	2	1	2	43.2		
4-5	"	"	"	21'0"	3	1	3	63.0		
4-6	"	"	"	17'6"	7	1	7	122.5		
4-6a	Straight	"	"	4'6"	1	1	1	4.5		
4-7	"	"	"	15'7" Ave	4	1	4	62.3		
4-7a	"	"	"	11'0"	4	1	4	44.0		
4-8	"	"	"	18'2 1/2"	4	1	4	72.8		
4-9	"	"	"	15'9"	2	1	2	31.5		
4-10	See previous sketch Abutment No 1	"	"	15'6"	3	1	3	46.5		
4-11	"	"	"	12'4"	7	1	7	86.3		
4-11a	Straight	"	"	4'0"	1	1	1	4.0		
4-12	See previous sketch Abutment No 1	"	"	9'8"	4	1	4	38.7		
4-13	Straight	"	"	14'7"	4	1	4	58.3		
4-14	"	"	"	14'0" Ave	4	1	4	56.0		
4-15	"	"	"	4'7" Ave	11	1	11	50.4		
4-17	"	"	"	3'3 1/2" Ave	10	1	10	32.9		
7-1	"	"	7	7'5" Ave	10	1	10	74.2		
7-2	"	"	"	4'11" Ave	9	1	9	44.3		
7-3	"	"	"	7'10" Ave	10	1	10	78.3		
7-4	"	"	"	5'0" Ave	10	1	10	50.0		
9-6	See previous sketch Abutment No 1	"	9	5'6"	4	2	8	44.0		
10-1	"	"	10	11'9"	7	2	14	164.5		
10-2	"	"	"	7'9"	10	2	20	155.0		
10-3	Straight	"	"	12'1" Ave	13	1	13	157.1		
10-4	"	"	"	8'6 1/2"	13	1	13	111.0		

MK	DESCRIPTION	Location	Size	Length	No. of Bars in Ea. Unit	No. of Units	Total No. of Bars	Total Length	Wt. Per Ft.	Total Weight
10-5	Straight	Abut No 2 footing	10	12'5 1/2" Ave	8	1	8	99.7		
10-6	"	"	"	8'6" Ave	7	1	7	59.5		
11-1	See previous sketch Abutment No 1	"	11	14'8"	54	2	108	1,584.0		
11-2	"	"	"	9'8"	53	2	106	1,024.7		
4-27a	"	Abut No 2 Wall	4	23'5"	52	1	52	1,217.7		
4-28a		"	"	21'7" Ave	52	1	52	1,122.3		
4-29	See previous sketch Abutment No 1	"	"	53'3"	13 12 6	2 2 2	26 24 12	3,301.5		
4-30		"	"	7'11 3/4" Ave	9	1	9	71.8		
4-30a		"	"	7'7 1/4" Ave	38	1	38	289.0		
4-30b		"	"	8'2 3/4" Ave	10	1	10	82.3		
4-30c		"	"	7'7 1/2" Ave	38	1	38	289.8		
4-30e		"	"	8'0 3/4" Ave	7	1	7	56.4		
4-31		"	"	4'8 3/4" Ave	9	1	9	42.6		
4-31a		"	"	4'4 3/4" Ave	38	1	38	167.0		
4-31b		"	"	4'11 3/4" Ave	10	1	10	49.8		
4-31c		"	"	4'4 3/4" Ave	38	1	38	167.0		
4-31e		"	"	4'9 3/4" Ave	7	1	7	33.7		
9-2a	See previous sketch Abutment No 1	"	9	25'3 1/2"	51	2	102	2,579.8		
9-3a	"	"	"	18'6"	51	2	102	1,887.0		
9-4a	"	"	"	14'6"	51	2	102	1,479.0		
9-12a		"	"	23'7"	52	1	52	1,226.3		
4-48		Abut #2 Conc. Seat	4	3'6"	4	14	56	196.0		
4-49		"	"	3'1"	4	12	48	148.0		
4-50		"	"	2'11"	4	2	8	23.3		
4-90		"	"	5'2 1/2"	1	12	12	62.5		
4-90a		"	"	4'10 1/2"	1	2	2	9.8		

MK	DESCRIPTION	Location	Size	Length	No. of Bars in Ea. Unit	No. of Units	Total No. of Bars	Total Length	Wt. Per Ft.	Total Weight
9-10	Straight	Abut #2 Conc. Seat	9	4'0"	3	14	42	168.0		
4-39	See previous sketch Abutment No 1	Abut #2 Wall retn	4	8'11 1/2"	20 17	1 1	20 17	331.5		
4-40	"	"	"	8'4 1/2"	4	2	8	67.0		
4-41	"	"	"	6'6"	2	2	4	26.0		
4-42	"	"	"	10'0"	3	2	6	60.0		
4-91	Straight	"	"	22'5 1/2"	2	1	2	44.9		
4-91a	"	"	"	18'7" Ave	2	1	2	37.2		
5-1	See previous sketch Abutment No 1	"	5	11'3 1/2"	3	2	6	67.8		
9-8	Straight	"	9	24'6 1/4"	4	1	4	98.1		
9-8a	"	"	"	21'0" Ave	4	1	4	84.0		
4-17a	"	Retfing Wall #3 Stem	4	21'6 1/4" Ave	12	1	12	258.2		
4-18a	"	"	"	13'11 1/4"	7	1	7	97.6		
4-19a		"	"	8'9 1/2"	18	1	18	158.3		
4-20a	Straight	"	"	7'0"	12	1	12	84.0		
4-21a		"	"	5'10"	17	1	17	99.2		
4-22a	Straight	"	"	26'5" Ave	15	1	15	396.3		
4-23a	"	"	"	19'0"	10	1	10	190.0		
4-24a	"	"	"	32'6" Ave	5	1	5	162.5		
4-25a	See previous sketch Abutment No 1	"	"	11'8" Ave	6	1	6	70.0		
4-26a	"	"	"	17'8"	1	1	1	17.7		

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All stirrup dimensions are to inside of stirrups; all other dimensions are figured to  of bars. out to out

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TERRITORY OF HAWAII

KALO LANE SEPARATION
Sta. 24+65.00 to Sta. 25+09.00

MAUKA ARTERIAL U59(3)

October 1951