FED. ROAD DIV. No.	STATE	FED. AID PROJ. No.	STATE AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
3	GA.					

VARIABLE BARS

	BAR	A				B				C				D				E				F			
		SIZE	TYPE	LENGTH	NO.REQ	SIZE	TYPE	LENGTH	NO.REQ.	SIZE	TYPE	LENGTH	NO.REQ.	SIZE	TYPE	LENGTH	NO.REQ.	SIZE	TYPE	LENGTH	NO.REQ	SIZE	TYPE	LENGTH	NO.REQ.
END SPANS	27	4	1	6'-6"-2:1 Slope 10'-2"-1½:1 Slope	8	4	1	26'-8"	41	11	2	28'-10"	8	11	1	24'-6"	4	-	-	-	-	10	1	17'-0"	4
	28	4	1		8	4	1	27'-8"	41	11	2	29'-10"	8	11	1	25'-7"	4	-	-	-	-	11	1	19'-1"	4
	29	4	1		8	4	1	28'-8"	41	11	2	30'-10"	8	11	2	30'-10"	4	9	1	15'-0"	4	9	1	19'-9"	4
	30	4	1		8	4	1	29'-8"	41	11	2	31'-10"	8	11	2	31'-10"	4	9	1	15'-4"	4	10	1	21'-7"	4
	31	4	1		8	4	1	30'-8"	41	11	2	32'-10"	8	11	2	32'-10"	4	10	1	17'-7"	4	10	1	23'-0"	4
	32	4	1		8	4	1	31'-8"	41	11	2	33'-10"	8	11	2	33'-10"	4	10	1	18'-6"	4	11	1	24'-8"	4
	33	4	1		8	4	1	32'-8"	41	11	2	34'-10"	8	11	2	34'-10"	4	11	1	19'-9"	4	11	1	25'-10"	4
	34	4	1	6'-0"-2:1 Slope 7'-9"-1½:1 Slope	8	4	1	33'-8"	41	11	2	35'-10"	8	11	1	30'-8"	4	-	-	-	-	11	1	22'-8"	4
	35	4	1		8	4	1	34'-8"	41	11	2	36'-10"	8	11	2	36'-10"	4	8	1	16'-10"	4	9	1	23'-7"	4
	36	4	1		8	4	1	35'-8"	41	11	2	37'-10"	8	11	2	37'-10"	4	9	1	19'-0"	4	9	1	25'-0"	4
	37	4	1		8	4	1	36'-8"	41	11	2	38'-10"	8	11	2	38'-10"	4	9	1	19'-3"	4	10	1	26'-7"	4
	38	4	1		8	4	1	37'-8"	41	11	2	39'-10"	8	11	2	39'-10"	4	10	1	21'-4"	4	10	1	28'-0"	4
	39	4	1		8	4	1	38'-8"	41	11	2	40'-10"	8	11	2	40'-10"	4	10	1	21'-6"	4	11	1	29'-9"	4
	40	4	1		8	4	1	39'-8"	41	11	2	41'-10"	8	11	2	41'-10"	4	11	1	23'-8"	4	11	1	31'-0"	4
INTERMEDIATE SPANS	27	-	-	-	-	4	1	26'-8"	41	11	2	28'-10"	8	11	1	24'-6"	4	-	-	-	-	10	1	17'-0"	4
	28	-	-	-	-	4	1	27'-8"	41	11	2	29'-10"	8	11	1	25'-7"	4	-	-	-	-	11	1	19'-1"	4
	29	-	-	-	-	4	1	28'-8"	41	11	2	30'-10"	8	11	2	30'-10"	4	9	1	15'-0"	4	9	1	19'-9"	4
	30	-	-	-	-	4	1	29'-8"	41	11	2	31'-10"	8	11	2	31'-10"	4	9	1	15'-4"	4	10	1	21'-7"	4
	31	-	-	-	-	4	1	30'-8"	41	11	2	32'-10"	8	11	2	32'-10"	4	10	1	17'-7"	4	10	1	23'-0"	4
	32	-	-	-	-	4	1	31'-8"	41	11	2	33'-10"	8	11	2	33'-10"	4	10	1	18'-6"	4	11	1	24'-8"	4
	33	-	-	-	-	4	1	32'-8"	41	11	2	34'-10"	8	11	2	34'-10"	4	11	1	19'-9"	4	11	1	25'-10"	4
	34	-	-	-	-	4	1	33'-8"	41	11	2	35'-10"	8	11	1	30'-8"	4	-	-	-	-	11	1	22'-8"	4
	35	-	-	-	-	4	1	34'-8"	41	11	2	36'-10"	8	11	2	36'-10"	4	8	1	16'-10"	4	9	1	23'-7"	4
	36	-	-	-	-	4	1	35'-8"	41	11	2	37'-10"	8	11	2	37'-10"	4	9	1	19'-0"	4	9	1	25'-0"	4
	37	-	-	-	-	4	1	36'-8"	41	11	2	38'-10"	8	11	2	38'-10"	4	9	1	19'-3"	4	10	1	26'-7"	4
	38	-	-	-	-	4	1	37'-8"	41	11	2	39'-10"	8	11	2	39'-10"	4	10	1	21'-4"	4	10	1	28'-0"	4
	39	-	-	-	-	4	1	38'-8"	41	11	2	40'-10"	8	11	2	40'-10"	4	10	1	21'-6"	4	11	1	29'-9"	4
	40	-	-	-	-	4	1	39'-8"	41	11	2	41'-10"	8	11	2	41'-10"	4	11	1	23'-8"	4	11	1	31'-0"	4

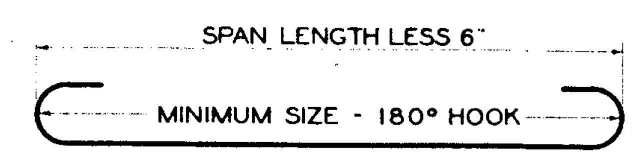
	BAR	G				H				J				K				L				M			
		SIZE	TYPE	LENGTH	NO.REQ.	SIZE	TYPE	LENGTH	NO.REQ.	SIZE	TYPE	LENGTH	NO.REQ	SIZE	TYPE	LENGTH	NO.REQ.	SIZE	TYPE	LENGTH	NO.REQ.	SIZE	TYPE	LENGTH	NO.REQ.
END SPANS	27	11	1	23'-10"	4	-	-	-	-	7	1	14'-3"	4	4	3	5'-1"	60	4	3	4'-11"	60	4	4	2'-3"	17
	28	11	1	25'-2"	4	-	-	-	-	9	1	16'-4"	4	4	3	5'-1"	62	4	3	4'-11"	62	4	4	2'-3"	17
	29	11	1	26'-3"	4	-	-	-	-	10	1	18'-7"	4	4	3	5'-1"	64	4	3	4'-11"	64	4	4	2'-3"	17
	30	11	1	27'-8"	4	-	-	-	-	11	1	20'-11"	4	4	3	5'-1"	66	4	3	4'-11"	66	4	4	2'-3"	17
	31	11	2	32'-10"	4	9	1	16'-0"	4	9	1	21'-5"	4	4	3	5'-1"	68	4	3	4'-11"	68	4	4	2'-3"	17
	32	11	2	33'-10"	4	9	1	16'-4"	4	10	1	23'-0"	4	4	3	5'-1"	70	4	3	4'-11"	70	4	4	2'-3"	17
	33	11	2	34'-10"	4	10	1	18'-9"	4	10	1	24'-4"	4	4	3	5'-1"	72	4	3	4'-11"	72	4	4	2'-3"	17
	34	11	1	30'-3"	4	-	-	-	-	10	1	21'-4"	4	4	3	6'-2"	56	4	3	6'-0"	56	4	4	2'-10"	17
	35	11	1	31'-5"	4	-	-	-	-	11	1	23'-3"	4	4	3	6'-2"	58	4	3	6'-0"	58	4	4	2'-10"	17
	36	11	2	37'-10"	4	8	1	17'-3"	4	9	1	24'-2"	4	4	3	6'-2"	58	4	3	6'-0"	58	4	4	2'-10"	17
	37	11	2	38'-10"	4	9	1	19'-5"	4	9	1	25'-6"	4	4	3	6'-2"	60	4	3	6'-0"	60	4	4	2'-10"	17
	38	11	2	39'-10"	4	9	1	19'-6"	4	10	1	27'-3"	4	4	3	6'-2"	62	4	3	6'-0"	62	4	4	2'-10"	17
	39	11	2	40'-10"	4	10	1	21'-10"	4	10	1	28'-8"	4	4	3	6'-2"	64	4	3	6'-0"	64	4	4	2'-10"	17
	40	11	2	41'-10"	4	10	1	21'-11"	4	11	1	30'-6"	4	4	3	6'-2"	64	4	3	6'-0"	64	4	4	2'-10"	17
INTERMEDIATE SPANS	27	11	1	23'-10"	4	-	-	-	-	7	1	14'-3"	4	4	3	5'-1"	60	4	3	4'-11"	60	-	-	-	-
	28	11	1	25'-2"	4	-	-	-	-	9	1	16'-4"	4	4	3	5'-1"	62	4	3	4'-11"	62	-	-	-	-
	29	11	1	26'-3"	4	-	-	-	-	10	1	18'-7"	4	4	3	5'-1"	64	4	3	4'-11"	64	-	-	-	-
	30	11	1	27'-8"	4	-	-	-	-	11	1	20'-11"	4	4	3	5'-1"	66	4	3	4'-11"	66	-	-	-	-
	31	11	2	32'-10"	4	9	1	16'-0"	4	9	1	21'-5"	4	4	3	5'-1"	68	4	3	4'-11"	68	-	-	-	-
	32	11	2	33'-10"	4	9	1	16'-4"	4	10	1	23'-0"	4	4	3	5'-1"	70	4	3	4'-11"	70	-	-	-	-
	33	11	2	34'-10"	4	10	1	18'-9"	4	10	1	24'-4"	4	4	3	5'-1"	72	4	3	4'-11"	72	-	-	-	-
	34	11	1	30'-3"	4	-	-	-	-	10	1	21'-4"	4	4	3	6'-2"	56	4	3	6'-0"	56	-	-	-	-
	35	11	1	31'-5"	4	-	-	-	-	11	1	23'-3"	4	4	3	6'-2"	58	4	3	6'-0"	58	-	-	-	-
	36	11	2	37'-10"	4	8	1	17'-3"	4	9	1	24'-2"	4	4	3	6'-2"	58	4	3	6'-0"	58	-	-	-	-
	37	11	2	38'-10"	4	9	1	19'-5"	4	9	1	25'-6"	4	4	3	6'-2"	60	4	3	6'-0"	60	-	-	-	-
	38	11	2	39'-10"	4	9	1	19'-6"	4	10	1	27'-3"	4	4	3	6'-2"	62	4	3	6'-0"	62	-	-	-	-
	39	11	2	40'-10"	4	10	1	21'-10"	4	10	1	28'-8"	4	4	3	6'-2"	64	4	3	6'-0"	64	-	-	-	-
	40	11	2	41'-10"	4	10	1	21'-11"	4	11	1	30'-6"	4	4	3	6'-2"	64	4	3	6'-0"	64	-	-	-	-

CONSTANT BARS

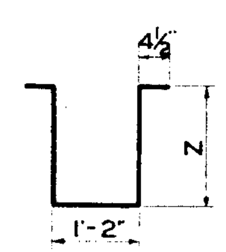
	BAR	450	451	550	551	552	553	850	851	852
	TYPE	5	1	6	7	1	1	6	7	1
	LENGTH	5'-0"	30'-0"	27'-2"	27'-11"	24'-11"	23'-6"	27'-2"	29'-5"	21'-2"
NO. REQ. END SPAN	27	62	2	22	22	22	1	1	1	1
	28	62	2	23	23	23	1	1	1	1
	29	68	2	24	24	24	1	1	1	1
	30	68	2	24	25	24	1	1	1	1
	31	68	2	25	26	25	1	1	1	1
	32	74	2	26	27	26	1	1	1	1
	33	74	2	27	28	27	1	1	1	1
	34	82	2	28	28	28	1	1	1	1
	35	82	2	29	29	29	1	1	1	1
	36	82	2	30	30	30	1	1	1	1
	37	82	2	30	31	30	1	1	1	1
	38	90	2	31	32	31	1	1	1	1
	39	90	2	32	33	32	1	1	1	1
	40	90	2	33	34	33	1	1	1	1
NO. REQ. INTERMEDIATE SPAN	27	66	-	21	22	21	-	2	2	2
	28	72	-	22	23	22	-	2	2	2
	29	72	-	23	24	23	-	2	2	2
	30	72	-	24	24	24	-	2	2	2
	31	72	-	25	25	25	-	2	2	2
	32	78	-	26	26	26	-	2	2	2
	33	86	-	27	27	27	-	2	2	2
	34	86	-	27	28	27	-	2	2	2
	35	86	-	28	29	28	-	2	2	2
	36	86	-	29	30	29	-	2	2	2
	37	94	-	30	30	30	-	2	2	2
	38	94	-	31	31	31	-	2	2	2
	39	94	-	32	32	32	-	2	2	2
	40	94	-	33	33	33	-	2	2	2

STRAIGHT BARS

TYPE 1

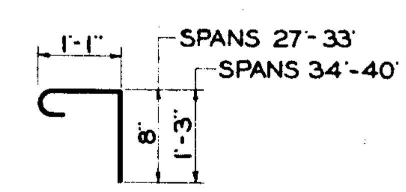


TYPE 2

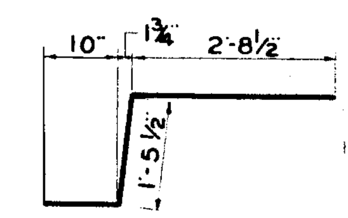


DIMENSION Z		
SPAN	27'-33'	34'-40'
K	1'-7"	2'-1½"
L	1'-6"	2'-0½"

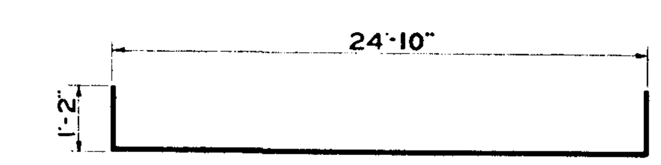
TYPE 3



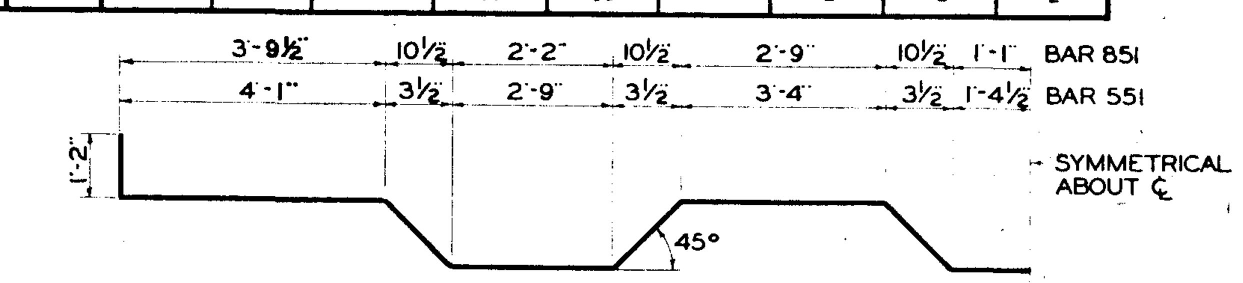
TYPE 4



TYPE 5



TYPE 6



TYPE 7

FIRST DIGIT IN THREE DIGIT CONSTANT BAR NUMBERS DENOTE BAR SIZE. ALL DIMENSIONS ARE OUT TO OUT OF BARS.
EXCEPT FOR TYPE 2 ,BAR BENDS SHOULD BE MADE IN ACCORDANCE WITH RECOMMENDED SIZES ON PAGE 16, C.R.S.I. DESIGN HANDBOOK, 1952 EDITION.

BAR TYPES

TABLE OF END SPAN QUANTITIES

SPAN	27				28				29				30				31			
END SLOPE	2:1		1½:1		2:1		1½:1		2:1		1½:1		2:1		1½:1		2:1		1½:1	
CAP WIDTH	2'-0"	2'-4"	2'-0"	2'-4"	2'-0"	2'-4"	2'-0"	2'-4"	2'-0"	2'-4"	2'-0"	2'-4"	2'-0"	2'-4"	2'-0"	2'-4"	2'-0"	2'-4"	2'-0"	2'-4"
CLASS "A" CONCRETE, CU. YDS.	28.54	28.64	29.49	29.60	29.46	29.56	30.41	30.52	30.37	30.48	31.32	31.44	31.28	31.39	32.23	32.36	32.20	32.31	33.15	33.27
BAR REINFORCEMENT STEEL, LBS.	6,537	6,535	6,557	6,554	6,982	6,980	7,002	6,999	7,477	7,474	7,496	7,493	7,880	7,877	7,900	7,897	8,369	8,366	8,389	8,386

SPAN	32				33				34				35				36			
END SLOPE	2:1		1½:1		2:1		1½:1		2:1		1½:1		2:1		1½:1		2:1		1½:1	
CAP WIDTH	2'-0"	2'-4"	2'-0"	2'-4"	2'-0"	2'-4"	2'-0"	2'-4"	2'-0"	2'-4"	2'-0"	2'-4"	2'-0"	2'-4"	2'-0"	2'-4"	2'-0"	2'-4"	2'-0"	2'-4"
CLASS "A" CONCRETE, CU. YDS.	33.11	33.23	34.07	34.19	34.03	34.14	34.98	35.11	39.46	39.63	39.89	40.07	40.50	40.67	40.92	41.10	41.54	41.71	41.96	42.14
BAR REINFORCEMENT STEEL, LBS.	8,888	8,885	8,908	8,905	9,354	9,351	9,374	9,371	8,444	8,442	8,454	8,451	8,923	8,920	8,932	8,930	9,359	9,356	9,368	9,366

SPAN	37				38				39				40			
END SLOPE	2:1		1½:1		2:1		1½:1		2:1		1½:1		2:1		1½:1	
CAP WIDTH	2'-0"	2'-4"	2'-0"	2'-4"	2'-0"	2'-4"	2'-0"	2'-4"	2'-0"	2'-4"	2'-0"	2'-4"	2'-0"	2'-4"	2'-0"	2'-4"
CLASS "A" CONCRETE, CU. YDS.	42.57	42.75	42.99	43.18	43.61	43.78	44.03	44.22	44.65	46.67	45.07	45.25	45.69	45.86	46.14	46.29
BAR REINFORCEMENT STEEL, LBS.	9,744	9,741	9,753	9,750	10,244	10,241	10,253	10,250	10,751	10,749	10,761	10,758	11,271	11,268	11,281	11278

NOTE: QUANTITY FOR BAR REINFORCEMENT STEEL INCLUDES HANDRAIL REINFORCEMENT.

TABLE OF INTERMEDIATE SPAN QUANTITIES

SPAN	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CLASS "A" CONCRETE, CU. YDS.	25.59	26.51	27.42	28.34	29.26	30.17	31.09	36.09	37.13	38.16	39.19	40.23	41.27	42.31
BAR REINFORCEMENT STEEL, LBS.	6,539	7,003	7,478	7,907	8,396	8,914	9,407	8,441	8,920	9,357	9,793	10,266	10,774	11,294

DATE | REVISIONS | BY

STATE HIGHWAY DEPARTMENT OF GEORGIA
BRIDGE DEPARTMENT

STANDARD
CONCRETE BEAM SUPERSTRUCTURE
27'-0" THRU 40'-0" SPANS
24'-0" ROADWAY

SCALE AS SHOWN — NOVEMBER 1956

DESIGNED R.S.F.
DRAWN F.L.B.
TRACED B.J.S.
CHECKED F.L.B.

SUBMITTED [signature] BRIDGE ENGINEER
APPROVED [signature] STATE HIGHWAY ENGINEER

NUMBER 3558-B