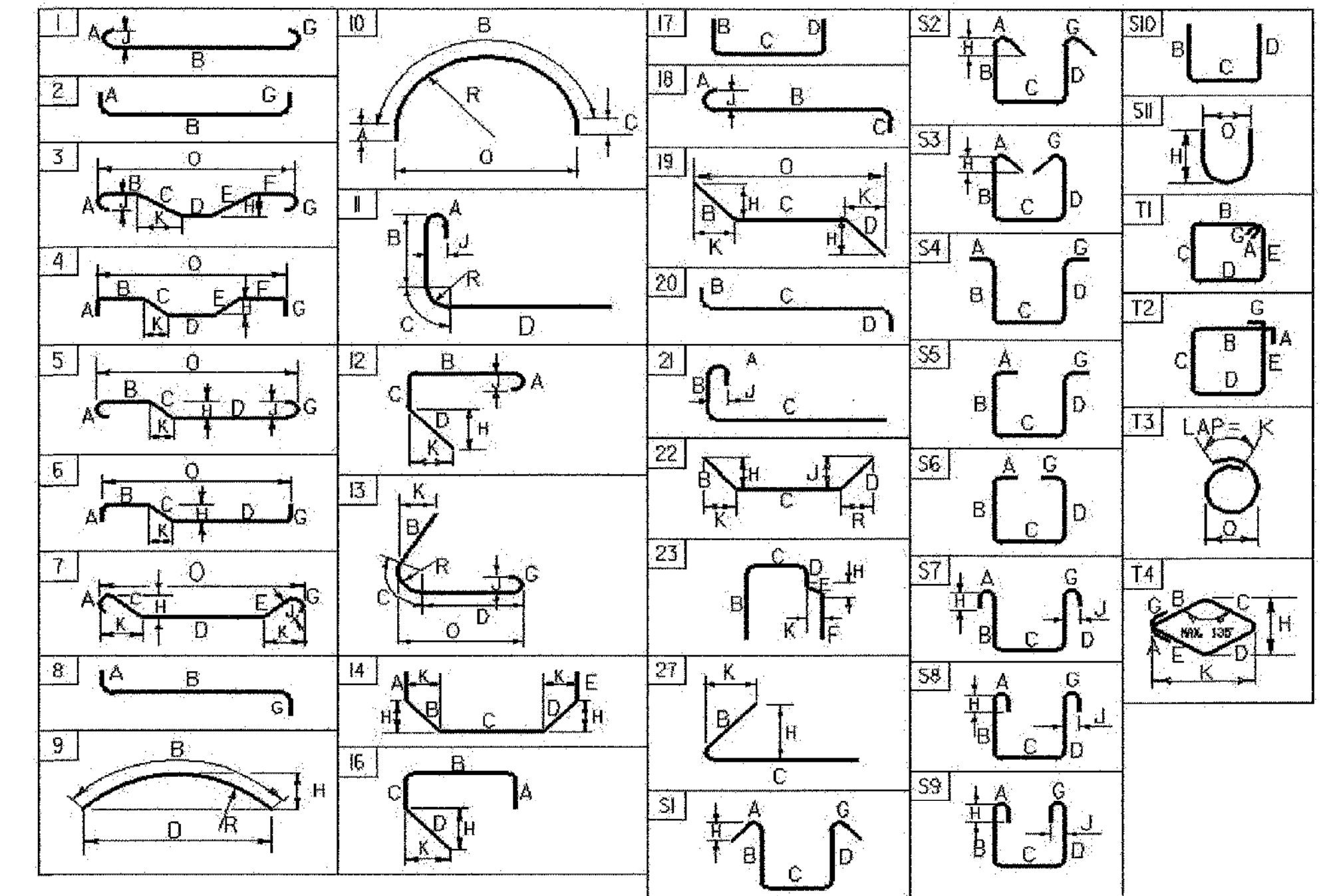


# REINFORCING STEEL SCHEDULE

EACH	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O	ITEM	EACH	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O	
<b>ABUTMENT #2</b>																	<b>WINGWALL #4B</b>																		
72	5	21'-3"	2A501	STR													24	5	35'-4"	4WB501	STR														
72	5	3'-11"	2A502	STR													36	5	10'-6"	4WB502	STR														
26	5	19'-8"	2A503	STR													35	5	4'-6"	4WB503	STR														
40	5	28'-2"	2A504	STR													35	5	14'-2"	4WB504	STR														
6	5	28'-2"	2A505	STR													36	5	34'-3"	4WB505	STR														
61	5	6'-7"	2A506	S10		2'-0"	0'-9"	3'-10"									35	5	9'-4"	4WB506	STR														
55	5	9'-0"	2A507	S10		2'-0"	5'-0"	2'-0"									35	5	5'-5"	4WB507	STR														
20	5	11'-6"	2A508	STR													35	5	5'-10"	4WB508	S10		2'-2"	1'-6"	2'-2"										
55	5	6'-1"	2A509	S10		3'-4"	1'-9"	1'-0"									2	5	34'-4"	4WB509	STR														
8	5	28'-2"	2A510	STR																															
27	5	5'-3"	E2A511	16	---	---	2'-5"	2'-10"				2'-0"		2'-0"			35	8	11'-6"	4WB801	17		4'-6"	7'-0"	---										
50	5	4'-4"	2A512	19		2'-2"	2'-2"	---				2'-0"		0'-11"		---	35	8	17'-0"	4WB802	17		4'-6"	12'-6"	---										
50	5	10'-7"	2A513	STR													17	8	4'-0"	4WB803	STR														
2	5	6'-7"	2A514	S10		2'-2"	2'-3"	2'-2"																											
6	5	28'-2"	2A515	STR													72	9	10'-6"	4W901	STR														
11	5	19'-9"	2A516	14	---	2'-2"	15'-5"	2'-2"	---			1'-2"		1'-10"		---																			
36	5	9'-9"	2A517	STR																															
18	5	4'-4"	2A518	19		2'-2"	2'-2"	---				2'-0"		0'-11"		---																			
4	5	10'-7"	2A519	STR																															
24	5	6'-4"	2A520	STR																															
4	5	5'-10"	2A521	S10		2'-2"	1'-6"	2'-2"																											
6	5	8'-6"	2A522	19		4'-4"	4'-2"	---				3'-11"		1'-10"		---																			
25	5	19'-1"	2A523	STR																															
21	5	11'-2"	2A524	STR																															
11	5	20'-3"	2A525	STR																															
12	5	22'-3"	2A526	STR																															
21	5	8'-4"	2A527	STR																															
21	5	12'-0"	2A528	STR																															
8	5	10'-10"	2A529	STR																															
8	5	21'-9"	2A530	STR																															
NOT USED				2A531																															
55	5	4'-2"	2A532	STR																															
3	5	4'-2"	2A533	STR																															
60	6	10'-11"	2A601	STR																															
118	7	13'-6"	2A701	2	2'-0"	11'-6"					---																								
16	7	22'-1"	2A702	STR																															
25	7	15'-3"	2A703	STR																															
23	7	7'-3"	2A704	STR																															
60	8	10'-11"	2A801	STR																															
<b>WINGWALL #3</b>																																			
22	5	16'-10"	3W501	STR																															
11	5	4'-0"	3W502	STR																															
9	5	17'-0"	3W503	STR																															
36	5	7'-6"	3W504	STR																															
7	5	5'-10"	3W505	S10		2'-2"	1'-6"	2'-2"																											
2	5	8'-3"	3W506	STR																															
17	5	9'-6"	3W507	STR																															
18	6	9'-9"	3W601	17		2'-0"	7'-9"	---																											
8	6	17'-0"	3W602	STR																															
36	9	9'-6"	3W901	STR																															
<b>WINGWALL #4A</b>																																			
26	5	17'-6"	4WA501	STR																															
18	5	12'-0"	4WA502	STR																															
18	5	5'-0"	4WA503	STR																															
18	5	17'-6"	4WA504	STR																															
21	5	17'-9"	4WA505	STR																															
18	5	4'-6"	4WA506	STR																															
36	5	6'-0"	4WA507	STR																															
18	5	5'-10"	4WA508	S10		2'-2"	1'-6"	2'-2"																											
2	5	17'-9"	4WA509	STR																															
36	8	12'-0"	4WA801	STR																															
18	8	14'-6"	4WA802	17		4'-6"	10'-0"	---																											
18	8	12'-0"	4WA803	STR																															
23	8	4'-0"	4WA804	STR																															
18	9	14'-6"	4WA901	17		4'-6"	10'-0"	---																											

~ NOTES ~

- UNLESS OTHERWISE DESIGNATED, ALL BAR REINFORCEMENT FOR CONCRETE IN SIZES UP TO AND INCLUDING NO. 18 SHALL CONFORM TO THE REQUIREMENTS OF THE "SPECIFICATIONS FOR DEFORMED BILLET-STEEL BARS FOR CONCRETE REINFORCEMENT", AASHTO M 31 (ASTM A 615-S1). ALL BARS SHALL BE GRADE 60, UNLESS OTHERWISE DESIGNATED.
- FOR TYPICAL BENDING DETAILS, RECOMMENDED PIN DIAMETER "D" OF BENDS AND HOOKS, AND OTHER STANDARD PRACTICE, SEE CURRENT CONCRETE REINFORCING STEEL INSTITUTE "MANUAL OF STANDARD PRACTICE".
- BARS WHICH REQUIRE MORE ACCURATE BENDING THAN STANDARD PRACTICES SHOULD HAVE LIMITS INDICATED.
- ALL DIMENSIONS ARE OUT TO OUT OF BAR EXCEPT "A" AND "G" ON STANDARD 180 DEGREE AND 135 DEGREE HOOKS.
- "J" DIMENSION ON 180 DEGREE HOOKS TO BE SHOWN ONLY WHERE NECESSARY TO RESTRICT HOOK SIZE. OTHERWISE, STANDARD HOOKS ARE TO BE USED.
- "H" DIMENSION ON STIRRUPS TO BE SHOWN ONLY WHEN NECESSARY TO MAINTAIN CLEARANCES.
- WHERE SLOPE DIFFERS FROM 45 DEGREES, DIMENSIONS "H" AND "K" MUST BE SHOWN.
- ▲ DENOTES BARS TO BE CUT IN FIELD.
- ◆ DENOTES ONE EXTRA BAR ADDED FOR TESTING PURPOSES.
- ) DENOTES TWO EXTRA BARS ADDED FOR TESTING PURPOSES.
- "E" IN PREFIX DENOTES EPOXY COATED REINFORCING STEEL.



ASTM STANDARD  
REINFORCING BARS

BAR SIZE DESIGNATION	WEIGHT POUNDS PER FOOT	NOMINAL DIMENSIONS ROUND SECTION		
		DIAMETER INCHES	AREA INCHES <sup>2</sup>	PERIMETER INCHES
#3	0.376	0.375	0.11	1.178
#4	0.668	0.500	0.20	1.571
#5	1.043	0.625	0.31	1.963
#6	1.502	0.750	0.44	2.356
#7	2.044	0.875	0.60	2.749
#8	2.			