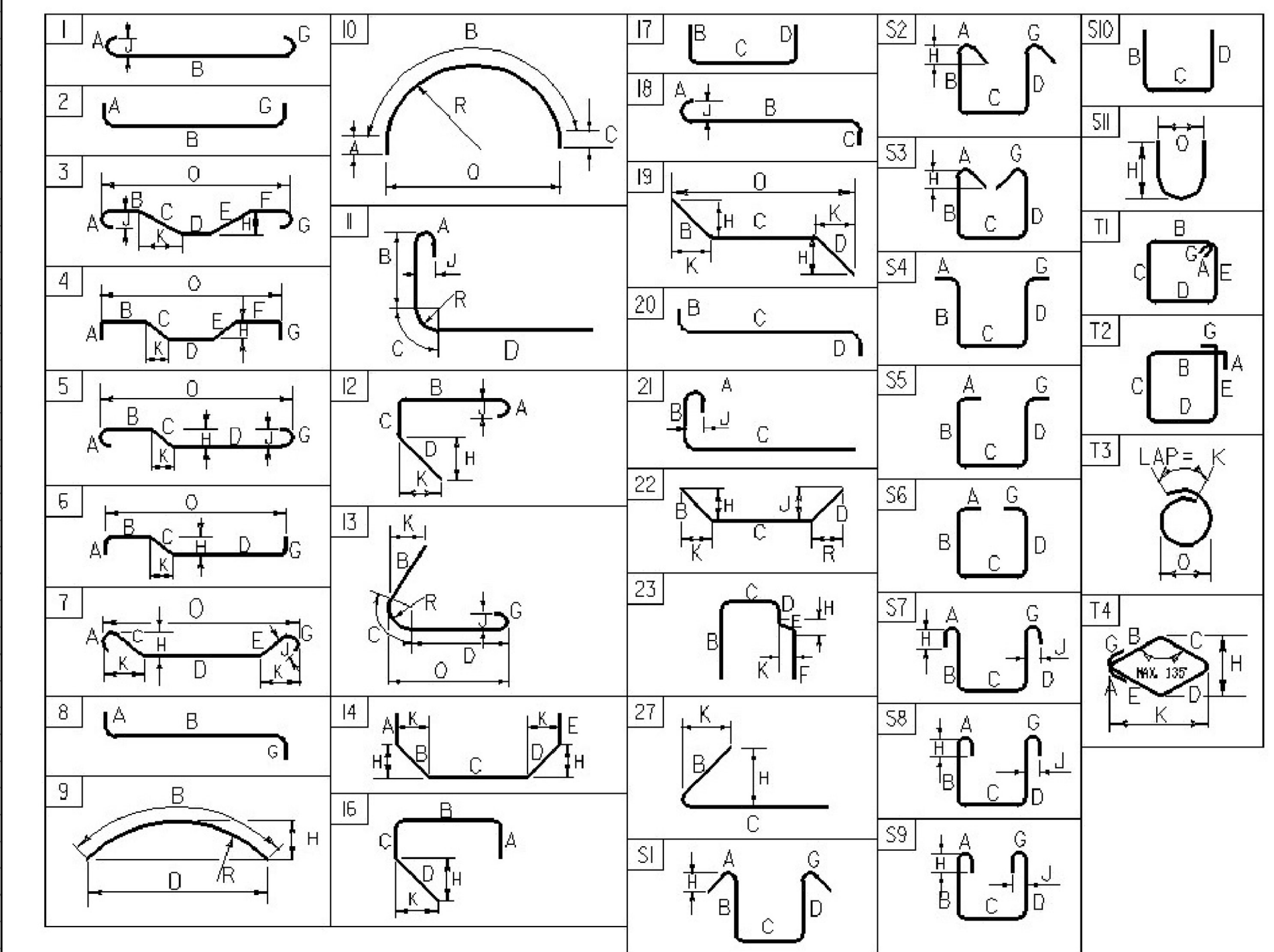


# REINFORCING STEEL SCHEDULE

ITEM	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>BRIDGE DECK</b>																																			
	624	16	10810	ES1601	STR	10810																													
	140	16	8330	ES1602	STR	8330																													
*	536	16	10340	ES1603	STR	10340																													
*	34	16	3190	ES1604	S5	150	740	300	2000																										
	773	16	1525	ES1605	S5	250	300	425	300			250																							
	9	16	2750	ES1606	STR	2750																													
△	270	19	10340	ES1901	STR	10340																													
<b>APPROACH SLAB #1</b>																																			
△	23	16	9040	1EAS1601	STR	9040																													
△	39	29	6220	1EAS2901	1	380	5840							300																					
<b>APPROACH SLAB #2</b>																																			
	21	16	9040	2EAS1601	STR	9040																													
	37	29	6220	2EAS2901	1	380	5840							300																					
<b>ABUTMENT #1</b>																																			
▲	38	16	2660	1A1601	STR	2660																													
▲	31	16	2680	1EA1602	22	1530	1150																												
	31	16	2360	1A1603	17	340	1360	660																											
	8	16	3070	1A1603A	16	660	1060	640	710																										
	31	16	1840	1EA1604	S10	660	520	660																											
	43	16	1540	1EA1605	S10	660	220	660																											
	40	16	2930	1A1606	STR	2930																													
	20	16	8790	1A1607	STR	8790																													
	20	16	2930	1A1607A	STR	2930																													
▲	38	16	5590	1A1608	STR	5590																													
	36	16	11280	1A1609	STR	11280																													
	6	16	2670	1A1609A	STR	2670																													
	2	16	9040	1A1610A	STR	9040																													
	5	16	9040	1EA1610A	STR	9040																													
	2	16	12800	1A1610B	STR	12800																													
	10	16	12800	1EA1610B	STR	12800																													
	6	16	2190	1A1610C	STR	2190																													
*	7	16	2190	1EA1610C	STR	2190																													
	46	16	2380	1EA1611	STR	2380																													
	72	16	1890	1A1612	22	1230	660																												
	37	16	1320	1A1613	22	660	660																												
	28	16	1320	1EA1613	22	660	660																												
	12	16	1780	1EA1614	22	1120	660																												
	38	16	1260	1A1615	STR	1260																													
	37	22	4755	1A2201	17	1160	3595																												
	38	22	3605	1A2202	17	1160	2445																												
*	17	25	1100	1EA2501	22	600	500																												
*	49	25	1195	1A2502	STR	1195																													
	40	29	2930	1A2901	STR	2930																													
<b>WINGWALL #1</b>																																			
▲	14	16	4320	1W1601	STR	4320																													
	14	16	2000	1W1602	S10	660	680	660																											
	16	16	3940	1W1603	STR	3940																													
	28	16	4510	1W1604	STR	4510																													
▲	15	16	7830	1W1605	STR	7830																													
▲	56	16	1260	1W1606	STR	4270																													
*	16	16	1260	1W1608	STR	1260																													
▲	2	16	3630	1W1607	22	360	3270						146			323																			
*	15	22	5895	1W2201	17	1130	4765																												
	14	22	4795	1W2202	17	1130	3665																												
*	32	36	3940	1W3601	STR	3940																													
<b>WINGWALL #2</b>																																			
▲	15	16	3590	2W1601	STR	3590																													
	15	16	1810	2W1602	S10	660	490	660																											
	17	16	3590	2W1603	STR	3590																													
	26	16	5010	2W1604	STR	5010																													
▲	17	16	6100	2W1605	STR	6100																													
*	18	16	1260	2W1608	STR	1260																													
▲	42	16	4780	2W1606	STR	4780																													
▲	2	16	4405	2W1607	22	395	4010						196			342																			
*	16	19	3605	2W1901	17	940	2665																												
*	16	22	4705	2W2201	17	940	3765																												
*	35	29	3590	2W2901	STR	3590																													
<b>ABUTMENT #2</b>																																			
▲	30	16	12540	2EA1601	STR	12540																													
	2	16	12590	2EA1601A	STR	12590																													
	43	16	2090	2EA1602	S10	660	770	660																											
	31	16	1860	2EA1603	S10	660	540	660																											
	31	16	1620	2EA1604	1	175	1270						175		125																				
	70	16	2935	2EA1605	3	175	960	1800						1720	125	650																			
*	▲	44	16	5270	2EA1606	17	770	4500																											
▲	43	19	5270	2EA1901	17	770	4500																												
△	▲	45	25	5270	2EA2501	17	770	4500																											
△	▲	45	29	5270	2EA2901	17	770	4500																											
<b>WINGWALL #3</b>																																			
▲	16	16	4290	3EW1601	STR	4290																													
▲	24	16	4530	3EW1603	STR	4530																													
	1	16	5515	3EW1602	22	1090	4425							790		755																			
	24	16	1610	3EW1604	S10	660	290	660																											
*	▲	17	19	4290	3EW1901	STR	4290																												
	1	19	5515	3EW1902	22	1090	4425							790		755																			
	16	19	3040	3EW1903	17	660	2380																												
	16	19	1320	3EW1904	17	660	660																												
<b>WINGWALL #4</b>																																			
*	▲	15	16	3290	4EW1601	STR	3290																												
▲	18	16	3780	4EW1603	STR	3780																													
	1	16	4310	4EW1602	22	1085	3225							790		740																			
	18	16	1610	4EW1604	S10	660	290	660																											
*	▲	15	19	3290	4EW1901	STR	3290																												
	1	19	4310	4EW1902	22	1085	3225							790		740																			
	11	19	3040	4EW1903	17	660	2380																												
	11	19	1320	4EW1904	17	660	660																												

~ NOTES ~

- UNLESS OTHERWISE DESIGNATED, ALL BAR REINFORCEMENT FOR CONCRETE IN SIZES UP TO AND INCLUDING 55M SHALL CONFORM TO THE REQUIREMENTS OF THE "SPECIFICATIONS FOR DEFORMED BILLET-STEEL BARS FOR CONCRETE REINFORCEMENT", AASHTO M 31M (ASTM A 615M-SI). ALL BARS SHALL BE GRADE 420, 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 BAR MARK PREFIX DENOTES EPOXY COATED REINFORCING STEEL.



ASTM STANDARD REINFORCING BARS

BAR SIZE	NOMINAL MASS (Kg/m)	NOMINAL DIAMETER (mm)	CROSS-SECTIONAL AREA (mm²)	PERIMETER (mm)
#10	0.560	9.5	71	29.84
#13	0.994	12.7	129	39.90
#16	1.552	15.9	199	49.95
#19	2.235	19.1	284	60.00
#22	3.042	22.2	387	69.74
#25	3.973	25.4	510	79.80
#29	5.060	28.7	645	90.16
#32	6.404	32.3	819	101.47
#36	7.907	35.8	1006	112.47