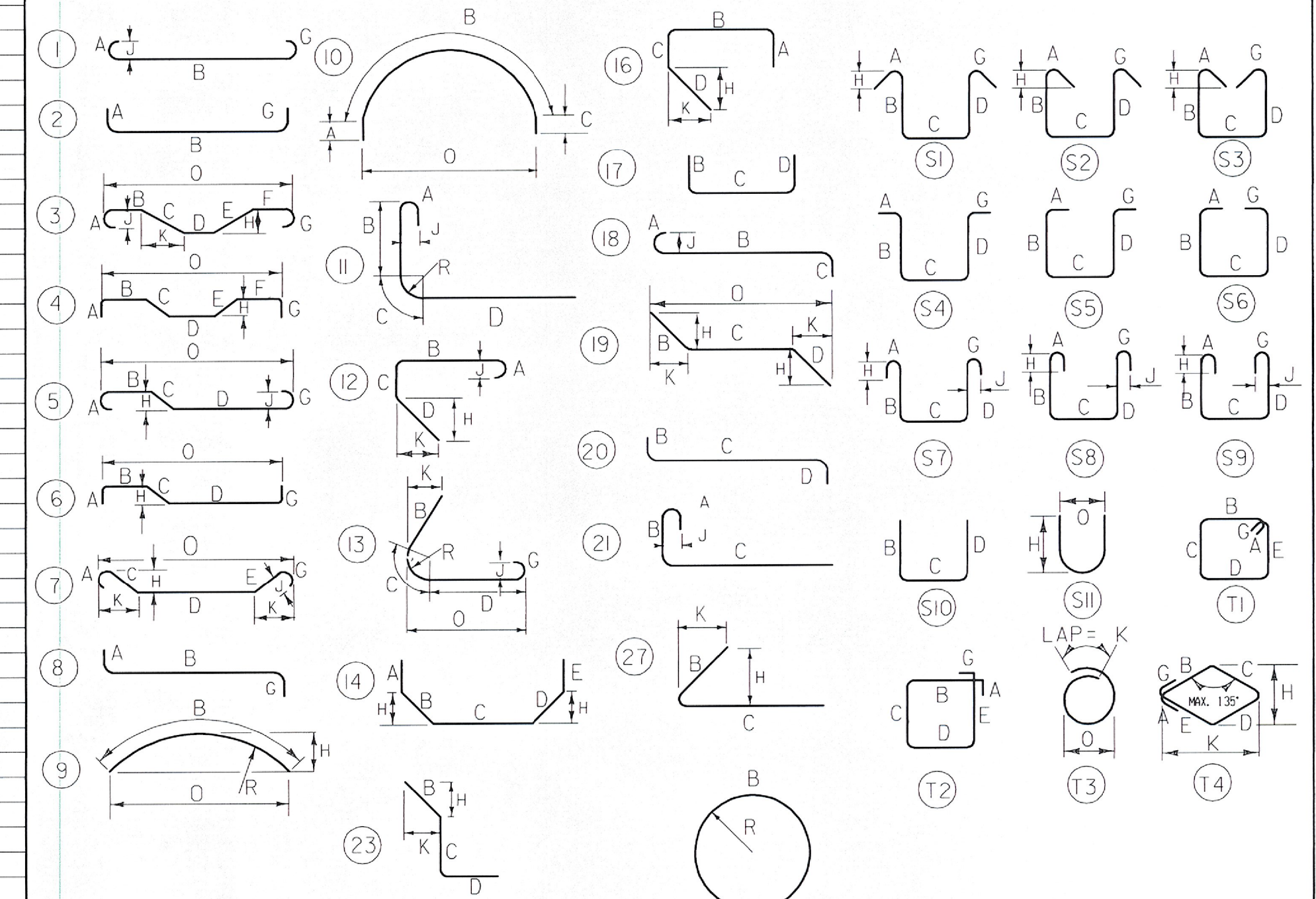


ITEM	NO. PIECES	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O	ITEM	NO. PIECES	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O	
WINGWALL NO. 3																		RETAINING WALL																		
5	28	16	5200	3W1601	-	▲												101	72	16	6500	RW1601	-													
6	36	16	4875	3W1602	-	▲												102	36	16	8200	RW1602	-													
7	15	16	4075	3W1603	-	▲												103	108	16	5500	RW1603	-													
8	4	16	3950	3W1604	-	▲												104	36	16	6250	RW1604	-													
9	13	16	2850	3W1605	17		1280	290	1280									105	284	16	2450	RW1605	-	●												
10	13	16	1950	3W1606	17		680	590	680									106	45	16	1725	RW1606	17		675	1050	0									
11	14	16	2900	3W1607	17		550	2350	0									107	45	16	2400	RW1607	20		675	1050	675									
12	14	16	5125	3W1608	-													108	266	16	1925	RW1608	17		400	1525	0									
13	13	16	4275	3W1609	14	0	660	2955	660	0			451					109	266	16	2650	RW1609	-	▲												
14	23	16	1325	3W1610	19		660	665	0				660					110	266	16	1550	RW1610	17		665	220	665									
15	3	16	6075	3W1611	17	▲	550	5525	0									111	114	16	8675	RW1611	-	▲												
16	21	16	1525	3W1612	S11								700					112	78	16	7850	RW1612	-	▲												
17	1	25	9000	3W2501	-	▲												113	10	16	1475	RW1613	-													
18	36	29	3975	3W2901	-													114	266	19	2425	RW1901	17		400	2025	0									
19	14	29	5750	3W2902	-	▲												115	267	19	2300	RW1902	-	▲	*											
20	18	32	3975	3W3201	-													116	257	19	2125	RW1903	17		400	1725	0									
21	15	32	2800	3W3202	17	*	550	2250	0									117	284	22	2450	RW2901	-	●												
22	14	32	4200	3W3203	17		550	3650	0									CONCRETE RETAINING WALL AT TH I																		
WINGWALL NO. 4																																				
28	28	16	4025	4W1601	-													118	26	16	4075	W1601	-													
29	32	16	4225	4W1602	-													119	24	16	9200	W1602	-													
30	15	16	3500	4W1603	-	▲												120	45	16	2025	W1603	17	●	400	1625	0									
31	4	16	3550	4W1604	-													121	45	16	4125	W1604	-													
32	11	16	2950	4W1605	17		1330	290	1330									122	56	16	3475	EW1605	17		1505	465	1505									
33	11	16	1950	4W1606	17		680	590	680									123	34	16	5025	W1606	-													
34	11	16	2900	4W1607	17		550	2350	0									124	5	16	5025	EW1607	-	●												
35	12	16	4750	4W1608	-	*												125	32	16	7475	W1608	-													
36	41	16	2750	4W1609	19		1375	1375	0				886					126	5	16	7475	EW1609	-													
37	23	16	1325	4W1610	19		660	665	0				425					127	17	16	2025	W1610	3	0	660	590	185	590	0	0	575	0	134			
38	18	16	1525	4W1611	S11								700					128	2	16	2025	EW1611	3	0	660	590	185	590	0	0	575	0	134			
39	2	25	9000	4W2501	-	▲												129	1	16	3325	EW1612	17		1500	325	1500									
40	13	29	5400	4W2901	-	▲												130	31	22	3250	W2201	-	▲												
41	28	32	3875	4W3201	-													131	13	22	3800	W2202	-	▲												
42	13	32	2800	4W3202	17		550	2250	0									132	41	22	3875	W2203	-													
43	13	32	4200	4W3203	17		550	3650	0									133	5	25	9000	W2501	-	▲												
PIER																																				
53	70	13	1375	P1301	16	175	1025	0	175	*			125					134	13	25	3800	W2502	-	▲												
54	182	13	1150	P1302	16	175	800	0	175				125					135	41	25	3075	W2504	17	*	825	2250	0									
55	34	16	9200	P1601	-													136	81	25	3075	W2504	17	*												
56	42	16	7475	P1602	-													137	41	25	3025	W2505	-	*												
57	42	16	4725	P1603	-																															
58	40	16	2425	P1604	17		700	1025	700																											
59	40	16	7175	P1605	SP		700	5775	700																											
60	5	16	3125	P1606	-	INTENTIONALLY LEFT BLANK																														
61	6	16	2675	P1609	17		525	2075	525																											
62	34	19	9225	P1901	-																															
63	60	22	7600	P2201	S6	640	740	4840	740				640																							
64	7	25	9000	P2501	-	▲																														
65	119	25	4750	P2502	-																															
66	80	25	2775	P2503	17		0	2275	500																											
67	80	25	5675	P2504	6	0	1335	415	3925	▲			0	100																						
68	40	25	5700	P2505	-	▲																														
BRIDGE RAIL																																				
78	24	16	10100	ER1601	-																															
79	10	16	650	ER1602	-																															
80	30	16	1500	ER1603	17		425	650	425																											
81	8	16	3925	ER1604	-	▲																														
82	16	16	1250	ER1605	17	▲	0	1025	225																											
83	484	16	2125	ER1606	S6	550	150	700	150				575																							
84	40	16	3375	ER1607	S6	725	450	1025	450																											
85	49	16	2325	ER1608	S6	625	200	750	200																											
86	8	16	2625	ER1609	S6	750	225	875	225																											
87	15	16	2925	ER1610	S6	875	250	1000	250																											
88	40	16	600	ER1611	-																															
89	24	22	10100	ER2201	-																															
90	9	22	3925	ER2202	-	▲	*																													

~ 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	NOMINAL DIAMETER (IN)	NOMINAL DIMENSIONS ROUND SECTION	
		CROSS SECTIONAL AREA (SQ IN)	PERIMETER (IN)
#10	0.560	9.5	29.84
#13	.0994	12.7	39.90
#16	1.552	15.9	49.95
#19	2.235	19.1	60.00
#22	3.042	22.2	69.74
#25	3.973	25.4	79.80
#29			