

REINFORCING STEEL SCHEDULE

ITEM	EACH	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
Abutments																	
* 101	16	6770	A16M01	STR													
288	16	1315	A16M02	16	155	1030	---	130					92		92		
30	16	4220	A16M03	STR													
80	16	2920	A16M04	17		940	1040	940									
84	19	2300	A19M01	16	300	600	300	1100					778		778		
* 11	25	3800	A25M01	22		2200	1600						1802		1262		
10	25	3800	A25M02	27		2200	1600						1802		1262		
84	25	1500	A25M03	12	275	800	425	---					---		---		
* 251	32	4575	A32M01	17		3575	1000	---					---		---		
Approach Slabs																	
* 101	16	11380	AS16M01	STR													
60	16	3920	AS16M02	T2	660	850	450	850	450			660					
* 17	22	6500	AS22M01	STR													
* 169	29	7875	AS29M01	1	375	7500						---		300			
16	29	7022	AS29M02	STR													
Super Structure Deck																	
483	16	10900	D16M01	STR													
154	16	12890	D16M02	STR													
18	16	2550	D16M03	14	420	700	310	700	420				525		300		
286	16	2030	D16M04	S5	400	400	430	400				---	400				
* 103	16	2850	D16M05	STR									710		---	710	---
122	16	2530	D16M06	22	---	1000	1530										
* 303	19	12890	D19M01	STR													
Wingwalls																	
64	16	5695	W16M01	17		2660	375	2660									
56	16	4145	W16M02	STR													
* 129	16	1765	W16M03	STR													
91	16	2768	W16M04	23		1170	425	---	155	1018			152		25		
* 29	19	3810	W19M01	22		895	2020	895					794	794	413	413	
28	19	5837	W19M02	22		895	4047	895					413	413	794	794	
* 57	22	4145	W22M01	STR													
Retaining Wall																	
36	16	8850	R16M01	STR													
* 32	16	1185	R16M02	STR													
31	16	2065	R16M03	STR													
62	16	2710	R16M04	STR													
* 32	22	2210	R22M01	17		1185	1025	---									
31	22	2220	R22M02	STR													
14	25	650	R25M01	STR													
Power Drop Stanchion																	
* 4	16	2350	S16M01	STR													
11	16	1210	S16M02	T2	155	150	300	150	300			155					
4	16	900	S16M03	STR													
4	16	750	S16M04	STR													
4	16	885	S16M05	STR													

Abutments		
	#1	#2
A16M01	50	50
A16M02	144	144
A16M03	15	15
A16M04	40	40
A19M01	42	42
A25M01	5	5
A25M02	5	5
A25M03	42	42
A32M01	125	125

Approach Slabs		
	#1	#2
AS16M01	50	50
AS16M02	30	30
AS22M01	8	8
AS29M01	84	84
AS29M02	8	8

Super Structure Deck		
	#1	#2
D16M01	483	
D16M02	154	
D16M03	18	
D16M04	286	
D16M05	102	
D16M06	122	
D19M01	302	

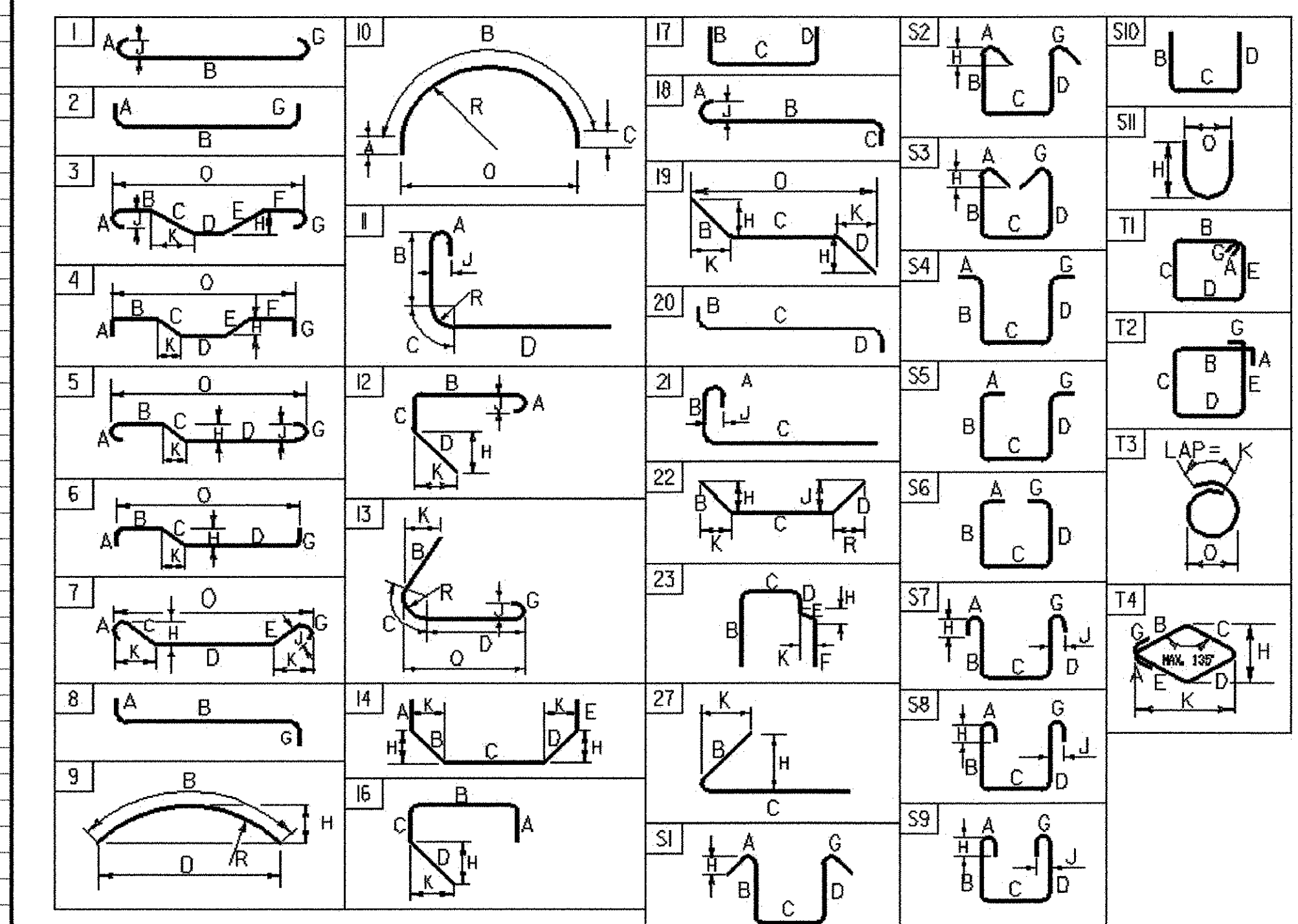
Wingwalls				
	#1	#2	#3	#4
W16M01	16	16	16	16
W16M02	14	14	14	14
W16M03	32	32	32	32
W16M04	15	15	15	15
W19M01	14	0	0	14
W19M02	0	14	14	0
W22M01	14	14	14	14

Retaining Wall		
	#1	#2
R16M01	36	
R16M02	31	
R16M03	31	
R16M04	62	
R22M01	31	
R22M02	31	
R25M01	14	
W16M04	31	

Power Drop Stanchion		
	#1	#2
S16M01	4	
S16M02	10	
S16M03	4	
S16M04	4	
S16M05	4	

~ 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 PREFIX DENOTES EPOXY COATED REINFORCING STEEL.



ASTM STANDARD REINFORCING BARS				
BAR SIZE	NOMINAL MASS (kg/m)	NOMINAL DIMENSIONS ROUND SECTION		
		DIAMETER (mm)	CROSS SECTIONAL AREA (mm ²)	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
#43	11.380	43.0	1452	135.09
#57	20.240	57.3	2581	180.01