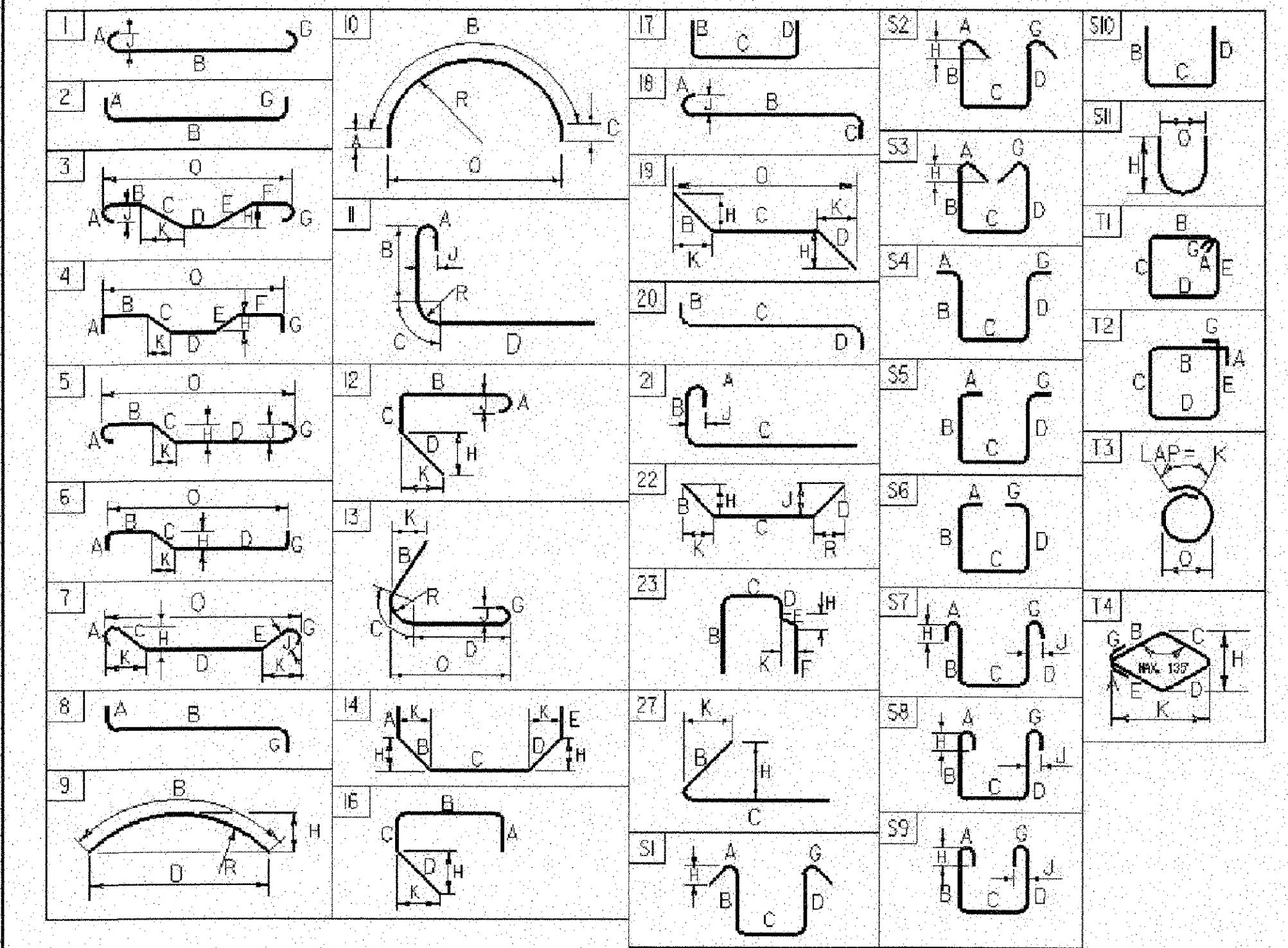


# REINFORCING STEEL SCHEDULE

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>DECK</b>																	<b>WINGWALL #4</b>																			
*	82	16	4840	ES1601	STR												22	16	8045	4W1601	STR															
	75	16	7800	ES1602	STR												23	16	1480	4W1602	STR															
	150	16	1460	ES1603	S5	300	310	240	310							300	▲	22	16	2090	4W1603	STR														
	34	16	1210	ES1604	17		550	660	---								▲	23	16	6130	4W1604	STR														
	34	16	1380	ES1605	S10		660	720	---								▲	44	16	6705	4W1605	STR														
<b>ABUTMENT #1</b>																	<b>ACCESS RAMP</b>																			
*	▲	13	16	4410	1A1601	STR											*	21	29	4240	4W2901	STR														
		24	22	1000	1A2201	STR												21	32	4240	4W3201	STR														
		18	16	1680	1A1602	17		620	440	620								22	16	1790	4W1606	17		660	470	660										
<b>WINGWALL #1</b>																	<b>WINGWALL #2</b>																			
▲	12	16	2820	1W1601	STR													2	16	2900	1W1603	19		695	2205	---										
*	▲	22	16	1465	1W1602	STR												6	16	2065	1W1604	19		660	1405	---										
		16	22	1110	1W2201	STR												3	16	1320	1W1605	19		660	660	---										
		2	16	2900	1W1603	19		695	2205	---								10	16	1340	1W1606	17		450	440	450										
		6	16	2065	1W1604	19		660	1405	---																										
		3	16	1320	1W1605	19		660	660	---																										
		10	16	1340	1W1606	17		450	440	450																										
▲	12	16	3410	2W1601	STR													8	16	890	F1601	STR														
▲	25	16	1465	2W1602	STR													8	16	660	F1602	T1	50	140	140	140	140									
		18	22	1110	2W2201	STR																														
		2	16	3015	2W1603	19		980	2035	---																										
		6	16	2195	2W1604	19		660	1535	---																										
		3	16	1320	2W1605	19		660	660	---																										
		12	16	1340	2W1606	17		450	440	450																										
<b>ABUTMENT #2</b>																	<b>WINGWALL #3</b>																			
		36	16	4175	2A1601	STR																														
		36	16	2795	2A1602	STR																														
*	▲	23	16	5140	2A1603	STR																														
		20	16	2250	2A1604	STR																														
		32	16	6685	2A1607	STR																														
		6	16	835	2A1608	STR																														
*		21	22	2300	2A2201	STR																														
*		21	32	4240	2A3201	STR																														
		22	16	3820	2A1605	17		2340	1480	---																										
		20	16	1340	2A1606	17		450	440	450																										
		4	16	1340	2A1609	17		450	440	450																										
		19	29	3130	2A2901	17		660	2470	---																										
		20	29	5540	2A2902	17		2340	3200	---																										
		22	16	4550	3W1601	STR																														
		12	16	1480	3W1602	STR																														
*	▲	12	16	2090	3W1603	STR																														
		▲	12	16	6130	3W1604	STR																													
		▲	44	16	3265	3W1605	STR																													
*		12	22	2830	3W2201	STR																														
*		11	29	4240	3W2901	STR																														
*		11	32	4240	3W3201	STR																														
		12	16	1790	3W1606	17		660	470	660																										
		2	16	3435	3W1607	19		935	2500	---																										
		36	16	1990	3W1608	19		660	1330	---																										
		18	16	1320	3W1609	19		660	660	---																										
		4	16	1485	3W1610	19		660	825	---																										
		11	29	5690	3W2902	17		1870	3820	---																										
		11	29	3280	3W2903	17		660	2620	---																										

~ 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 M31M (ASTM A 615M-S1). 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 THE 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 (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
#43	11.380	43.0	1452	135.09
#57	20.240	57.3	2581	180.01

PROJECT NAME: **WALLINGFORD**  
 PROJECT NUMBER: **BRO 1443(31)**  
 FILE NAME: /PW/94/084/sj084rss.xls  
 PROJECT LEADER: **R. WHITCOMB**  
 DESIGNED BY: **K. UPMAL**  
 REINFORCING STEEL SCHEDULE SHEET

PLOT DATE: 3/9/2004  
 DRAWN BY: **J. GILMORE**  
 CHECKED BY: **P. PERRY**  
 SHEET 30 OF 38