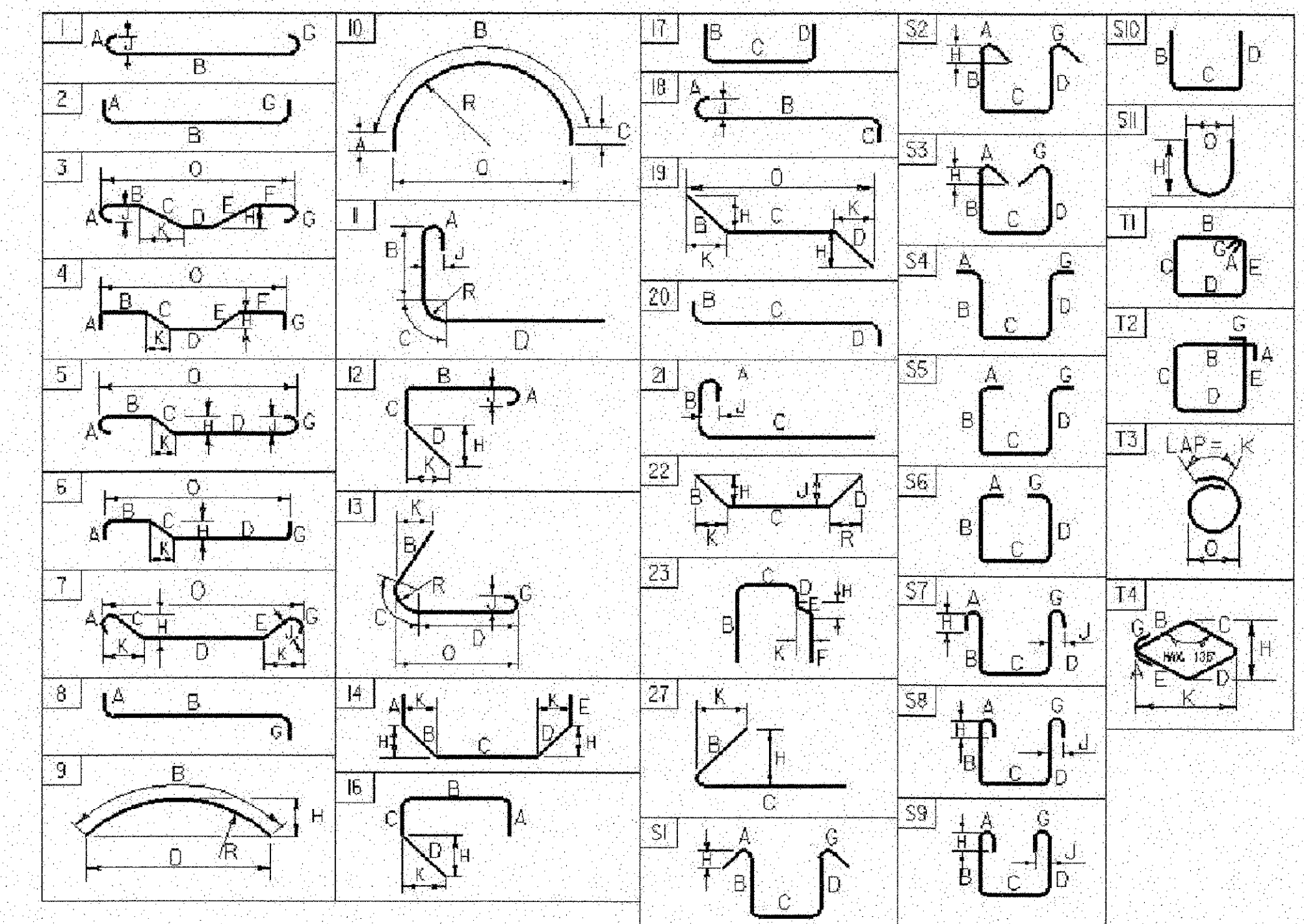


REINFORCING STEEL SCHEDULE

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						
ABUTMENT #1																																									
*	9	5	18'-5"	1A501	STR																																				
▲	22	5	18'-5"	1A502	STR																																				
▲	40	5	9'-8"	1A503	STR																																				
	8	5	1'-0"	1A504	STR																																				
	4	5	4'-0"	1A505	STR																																				
	4	5	4'-0"	1A506	STR																																				
*	18	5	5'-7"	1A507	17		3'-5"	2'-2"	---																																
	17	5	5'-1"	1A508	17		2'-11"	2'-2"	---																																
	4	5	5'-4"	1A509	17		3'-2"	2'-2"	---																																
	4	5	5'-10"	1A510	17		3'-8"	2'-2"	---																																
	9	5	5'-0"	1A511	17		2'-0"	1'-0"	2'-0"																																
*	9	6	5'-1"	1A601	17		2'-11"	2'-2"	---																																
	6	6	6'-5"	1A602	17		4'-3"	2'-2"	---																																
	6	6	5'-0"	1A603	22		2'-10"	2'-2"	---			2'-10"	---		0'-6"	---																									
*	7	6	6'-2"	1A604	22		4'-0"	2'-2"	---			4'-0"	---		0'-8"	---																									
△	14	8	4'-3"	1A801	17		1'-0"	3'-3"	---																																
ABUTMENT #2																																									
	8	5	18'-5"	2A501	STR																																				
*	19	5	18'-5"	2A502	STR																																				
	40	5	7'-7"	2A503	STR																																				
	8	5	1'-0"	2A504	STR																																				
	4	5	4'-0"	2A505	STR																																				
	4	5	4'-6"	2A506	STR																																				
*	17	5	5'-6"	2A507	17		3'-4"	2'-2"	---																																
	18	5	5'-0"	2A508	17		2'-10"	2'-2"	---																																
	4	5	5'-3"	2A509	17		3'-1"	2'-2"	---																																
	4	5	5'-9"	2A510	17		3'-7"	2'-2"	---																																
	9	5	5'-0"	2A511	17		2'-0"	1'-0"	2'-0"																																
*	8	6	6'-1"	2A601	27		3'-11"	2'-2"	---			3'-10"	---		0'-8"	---																									
	7	6	7'-1"	2A602	27		4'-11"	2'-2"	---			4'-11"	---		0'-10"	---																									
*	9	6	6'-0"	2A603	27		3'-10"	2'-2"	---			3'-10"	---		0'-8"	---																									
*	6	6	6'-8"	2A604	27		4'-6"	2'-2"	---			4'-5"	---		0'-9"	---																									
△	14	8	4'-3"	2A801	17		1'-0"	3'-3"	---																																
WINGWALL #1																																									
*	5	5	7'-0"	1W501	17		3'-0"	1'-0"	3'-0"																																
	8	5	6'-4"	1W502	22		3'-4"	3'-0"	---			2'-4"	---		2'-4"	---																									
WINGWALL #2																																									
	4	5	7'-0"	2W501	17		3'-0"	1'-0"	3'-0"																																
*	9	5	6'-4"	2W502	22		3'-4"	3'-0"	---			2'-4"	---		2'-4"	---																									
WINGWALL #3																																									
	4	5	6'-8"	3W501	17		2'-10"	1'-0"	2'-10"																																
*	9	5	7'-10"	3W502	22		4'-10"	3'-0"	---			3'-5"	---		3'-5"	---																									
WINGWALL #4																																									
*	5	5	6'-8"	4W501	17		2'-10"	1'-0"	2'-10"																																
	8	5	7'-10"	4W502	22		4'-10"	3'-0"	---			3'-5"	---		3'-5"	---																									

~ 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-S). 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 N BAR MARK PREFIX DENOTES EPOXY COATED REINFORCING STEEL.



ASTM STANDARD REINFORCING BARS				
BAR SIZE DESIGNATION	WEIGHT POUNDS PER FOOT	NOMINAL DIAMETER INCHES	AREA INCHES ²	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	2.670	1.000	0.79	3.142
#9	3.400	1.128	1.00	3.544
#10	4.303	1.270	1.27	3.990
#11	5.313	1.410	1.56	4.430
#14	7.65	1.693	2.25	5.32
#18	13.60	2.257	4.00	7.09

PROJECT NAME: **TUNBRIDGE**
 PROJECT NUMBER: **BHO 1444 (42)**
 FILE NAME: s03j032reinf.xls PLOT DATE: 3/16/2004
 PROJECT MANAGER: C. P. Williams DRAWN BY: M.L. Longstreet
 DESIGNED BY: R. S. Young CHECKED BY: R. S. Young
 REINFORCING STEEL SCHEDULE SHEET #1 SHEET 25 OF 40