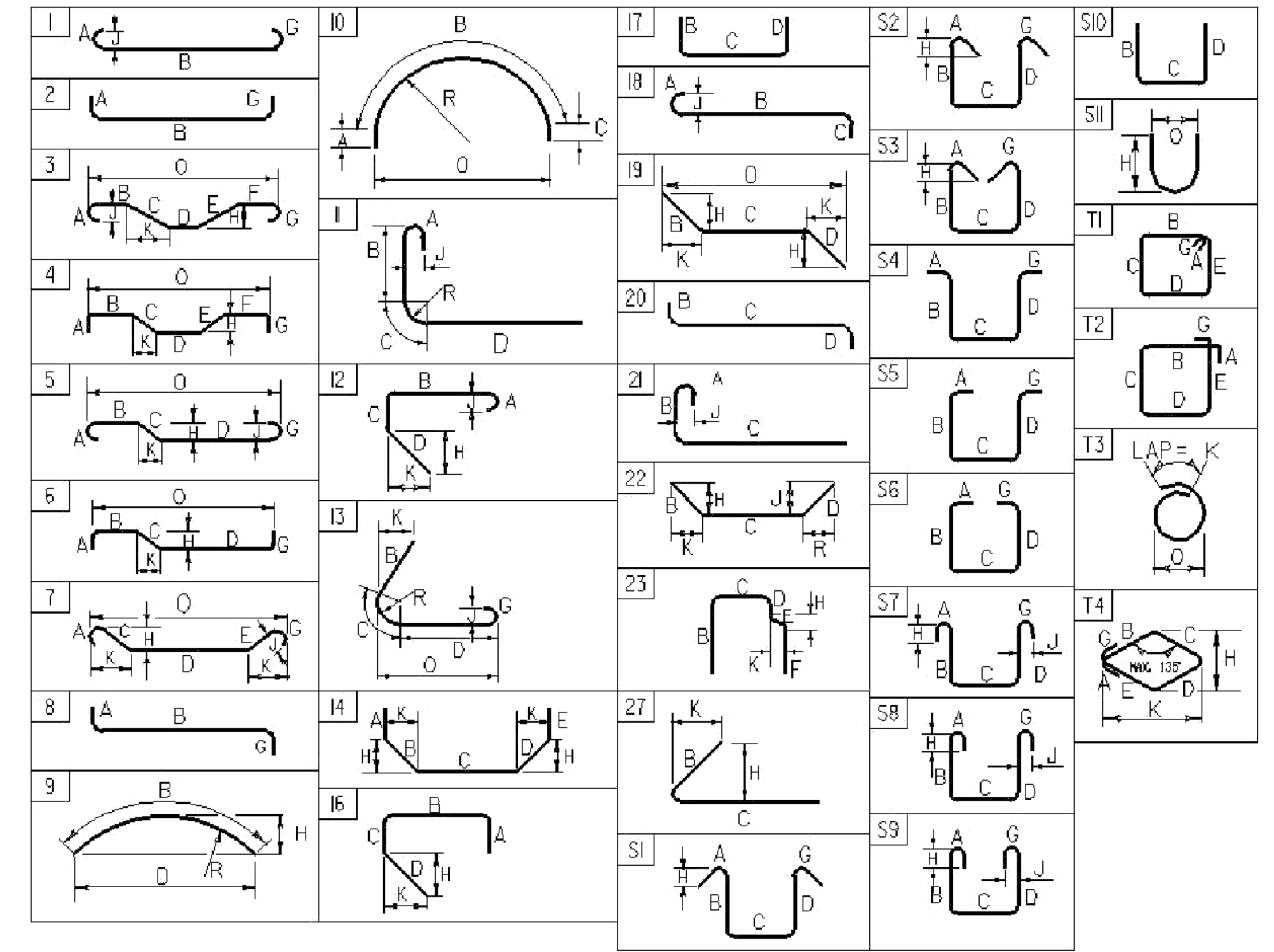


# REINFORCING STEEL SCHEDULE

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>SLAB</b>																																																				
	21	5	36'-6"	ES501	STR	36'-6"																																														
+	77	5	36'-10"	ES506	STR	36'-10"																																														
	38	5	14'-2"	ES502	S6	1'-6"	1'-7"	8'-0"	1'-7"																																											
	31	5	9'-3"	ES503	S5	1'-6"	2'-5"	1'-5"	2'-5"																																											
	48	5	9'-0"	ES504	20		4'-10"	2'-8"	1'-6"																																											
	48	5	9'-0"	ES505	17		4'-10"	2'-8"	1'-6"																																											
*	50	11	38'-1"	ES1101	1	1'-7"	36'-6"																																													
<b>APPROACH SLABS</b>																																																				
	52	5	24'-6"	1EAS501	STR	24'-6"																																														
*	52	5	24'-6"	2EAS502	STR	24'-6"																																														
+	36	9	25'-9"	1EAS901	1	1'-3"	24'-6"																																													
	35	9	25'-9"	2EAS901	1	1'-3"	24'-6"																																													

~ 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 DENOTES EPOXY COATED REINFORCING STEEL.



ASTM STANDARD REINFORCING BARS				
BAR SIZE DESIGNATION	WEIGHT POUNDS PER FOOT	NOMINAL DIMENSIONS ROUND SECTION		
		DIAMETER INCHES	AREA INCHES <sup>2</sup>	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: Williamstown  
 PROJECT NUMBER: BRS 0204(4)  
 FILE NAME: engreinf\_New.xls  
 PROJECT MANAGER: M. Evans-Mongee  
 DESIGNED BY: M. Evans-Mongee  
 REINFORCING STEEL SCHEDULE SHEET #2

PLOT DATE: 3/3/2008  
 DRAWN BY: M. Evans-Mongee  
 CHECKED BY: L. Russell  
 SHEET OF