

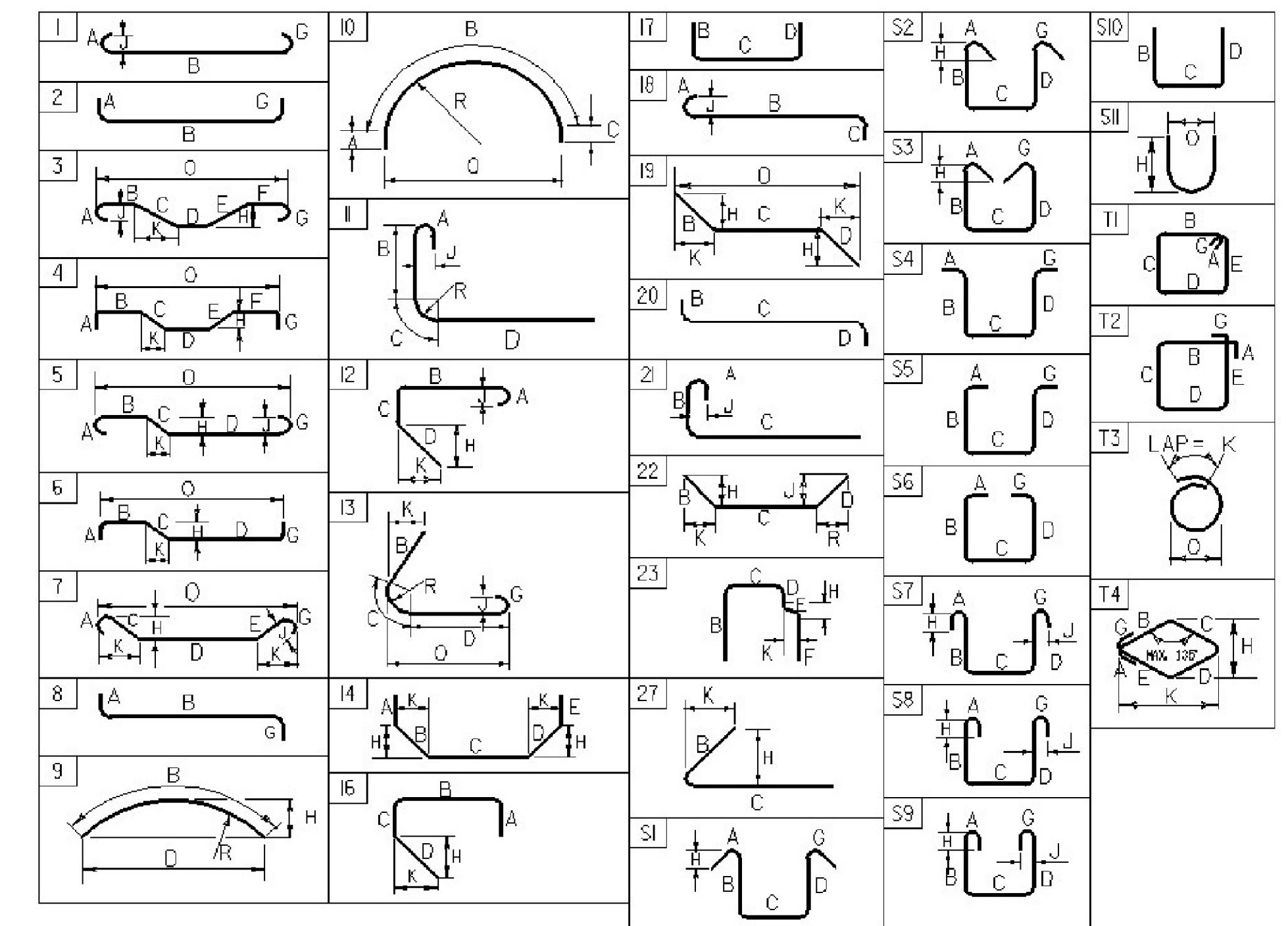
STATE OF VERMONT
AGENCY OF TRANSPORTATION

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					
HEADWALL																																								
*	23	5	2'-5"	HW501	STR																																			
	12	5	4'-1"	HW502	17		1'-6"	1'-1"	1'-6"																															
	7	5	10'-11"	HW503	STR																																			
WINGWALL 3																																								
*▲	31	5	2'-8"	3W501	STR																																			
▲	16	5	4'-1"	3W502	17		1'-6"	1'-1"	1'-6"																															
	7	5	14'-7"	3W503	22		1'-7"	13'-0"	---			0'-7"	---	1'-6"	---																									
▲	6	5	3'-9"	3W504	22		1'-7"	2'-2"	---			1'-1"	---	1'-1"	---																									
	3	5	2'-8"	3W505	17		0'-10"	1'-0"	0'-10"																															
WINGWALL 4																																								
*▲	31	5	3'-0"	4W501	STR																																			
▲	16	5	3'-9"	4W502	17		1'-10"	1'-1"	1'-10"																															
	7	5	14'-5"	4W503	22		1'-7"	12'-10"	---			0'-6"	---	1'-6"	---																									
▲	6	5	3'-9"	4W504	22		1'-7"	2'-2"	---			1'-1"	---	1'-1"	---																									
	3	5	2'-8"	4W505	17		0'-10"	1'-0"	0'-10"																															

~ 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 BAR MARK PREFIX DENOTES EPOXY COATED REINFORCING STEEL.



ASTM STANDARD REINFORCING BARS				
BAR SIZE DESIGNATION	WEIGHT POUNDS PER FOOT	NOMINAL DIMENSIONS ROUND SECTION		
		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: **MORRISTOWN**
 PROJECT NUMBER: **STPG SGNL(47)**
 FILE NAME: **z15t047reinf.xls** PLOT DATE: **4/13/2016**
 PROJECT MANAGER: **J. SANTACRUC** DRAWN BY: **S. MERKWAN**
 DESIGNED BY: **D. KULL** CHECKED BY: **B. COLBURN**
 REINFORCING STEEL SCHEDULE SHEET SHEET **9** OF **58**