

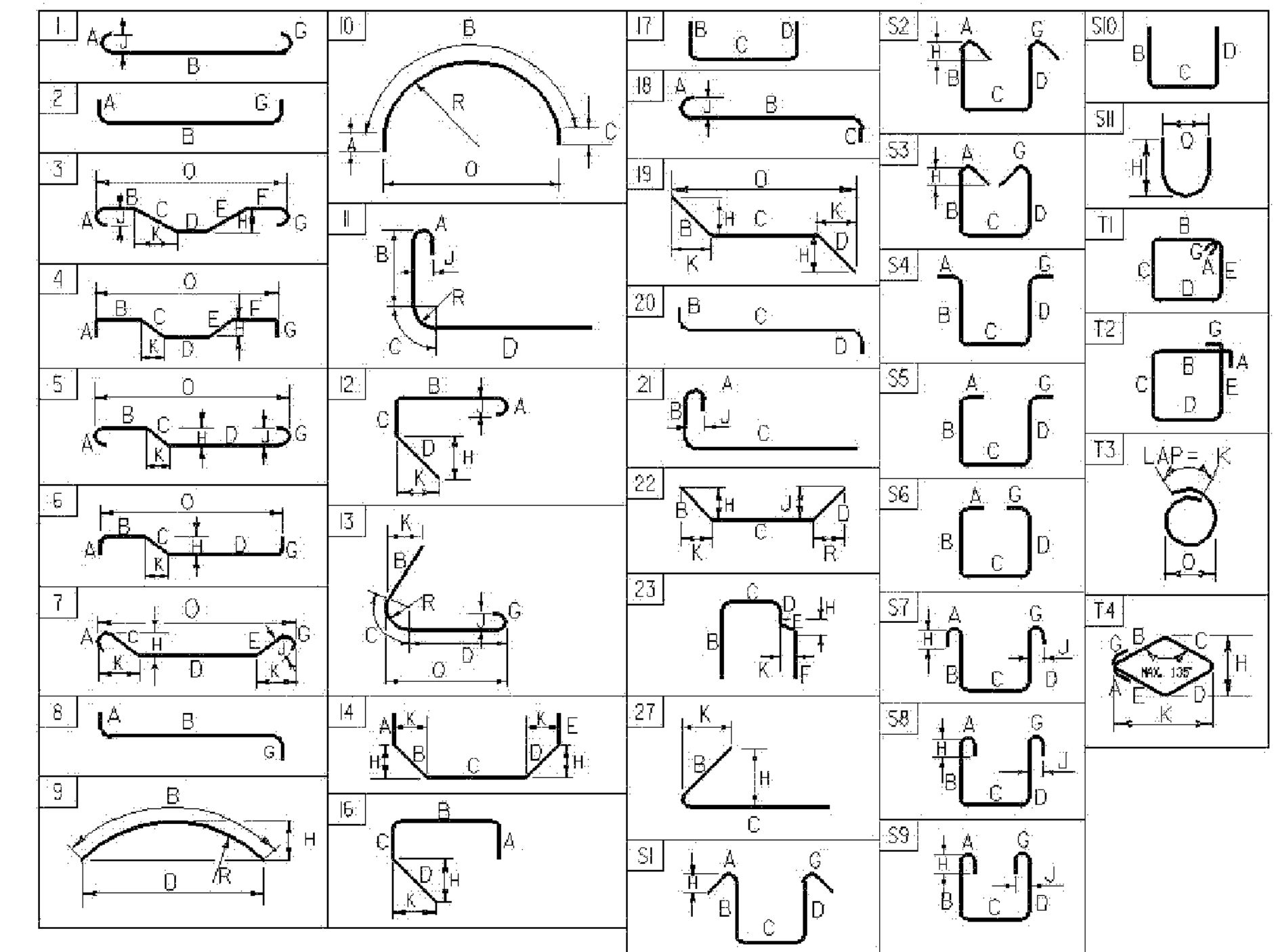
STATE OF VERMONT
AGENCY OF TRANSPORTATION

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
APPROACH SPAN DECK																		ABUTMENT # 2																	
*	129	4	37'- 7"	1ES401	STR	37'- 7"												*	45	5	5'- 7"	2A501	STR	5'- 7"											
	108	4	37'- 7"	1ES402	STR	37'- 7"													44	5	17'- 10"	2A502	STR	17'- 10"											
																			38	5	42'- 2"	2A503	STR	42'- 2"											
																			6	5	37'- 8"	2A505	STR	37'- 8"											
																			39	5	4'- 2"	2A506	STR	4'- 2"											
																		*	11	5	37'- 8"	2EA509	STR	37'- 8"											
																			8	6	49'- 11"	2A601	STR	49'- 11"											
																		*	41	8	11'- 7"	2A802	STR	11'- 7"											
																		*	17	9	17'- 10"	2A901	STR	17'- 10"											
																		*	47	10	8'- 3"	2A1002	STR	8'- 3"											
																			24	10	24'- 6"	2A1005	STR	24'- 6"											
																			40	5	8'- 8"	2A504	22		3'- 8"	5'- 0"					3'- 7"		3'- 7"		
																			64	5	4'- 4"	2A507	17		2'- 2"	2'- 2"									
																			32	5	13'- 4"	2A508	22		2'- 2"	9'- 0"	2'- 2"				1'- 6"	1'- 6"	1'- 6"	1'- 6"	
																			40	5	8'- 8"	2EA510	23		3'- 7"	0'- 6"	0'- 6"	1'- 0"	3'- 1"		0'- 0"		1'- 0"		
																		*	5	5	8'- 6"	2EA511	17		4'- 0"	0'- 6"	4'- 0"								
																			74	6	11'- 10"	2A602	T1	0'- 6"	2'- 5"	3'- 0"	2'- 5"	3'- 0"	0'- 6"						
																			40	7	14'- 6"	2A701	16	3'- 11"	4'- 6"	1'- 1"	5'- 0"			3'- 10"		3'- 10"			
																			78	8	15'- 6"	2A801	17		1'- 4"	14'- 2"									
																			15	8	4'- 5"	2EA803	17		1'- 4"	3'- 1"									
																			18	10	56'- 1"	2A1001	17		3'- 2"	49'- 9"	3'- 2"								
																			46	10	14'- 7"	2A1003	17		3'- 3"	8'- 1"	3'- 3"								
																			24	10	30'- 8"	2A1004	17		3'- 2"	24'- 4"	3'- 2"								
																		*	68	11	14'- 9"	2A1101	17		3'- 3"	8'- 3"	3'- 3"								
																			36	11	30'- 8"	2A1102	17		3'- 2"	24'- 4"	3'- 2"								
																			18	11	56'- 1"	2A1103	17		3'- 2"	49'- 9"	3'- 2"								
																		WINGWALL # 3																	
																		*	23	5	5'- 7"	3W501	STR	5'- 7"											
																		▲	22	5	24'- 8"	3W502	STR	24'- 8"											
																			52	5	23'- 0"	3W503	STR	23'- 0"											
																			3	5	14'- 4"	3W505	STR	14'- 4"											
																			6	5	24'- 0"	3W506	STR	24'- 0"											
																			19	7	17'- 8"	3W701	STR	17'- 8"											
																			25	5	10'- 5"	3W504	17		4'- 5"	1'- 7"	4'- 5"								
																			19	5	6'- 2"	3W507	17		2'- 2"	1'- 10"	2'- 2"								
																		*	9	6	35'- 4"	3W601	17		5'- 5"	24'- 6"	5'- 5"								
																		*	38	9	15'- 11"	3W901	17		1'- 7"	14'- 4"									
																			32	10	14'- 6"	3W1001	17		3'- 3"	8'- 0"	3'- 3"								
																			32	11	14'- 6"	3W1101	17		3'- 3"	8'- 0"	3'- 3"								
																		WINGWALL # 4																	
																		▲	22	5	5'- 7"	4W501	STR	5'- 7"											
																			22	5	24'- 10"	4W502	STR	24'- 10"											
																		▲	52	5	21'- 7"	4W503	STR	21'- 7"											
																			3	5	14'- 4"	4W505	STR	14'- 4"											
																			2	5	24'- 2"	4W506	STR	24'- 2"											
																		*	20	7	17'- 7"	4W701	STR	17'- 7"											
																			25	5	10'- 5"	4W504	17		4'- 5"	1'- 7"	4'- 5"								
																			19	5	6'- 2"	4W507	17		2'- 2"	1'- 10"	2'- 2"								
																			8	6	35'- 4"	4W601	17		5'- 5"	24'- 6"	5'- 5"								
																			37	9	15'- 11"	4W901	17		1'- 7"	14'- 4"									
																		*	33	10	14'- 6"	4W1001	17		3'- 3"	8'- 0"	3'- 3"								
																		*	33	11	14'- 6"	4W1101	17		3'- 3"	8'- 0"	3'- 3"								
																		APPROACH SLAB # 2																	
																			22	5	27'- 6"	2EAS501	STR	27'- 6"											
																		*	35	9	20'- 9"	2EAS901	1	1'- 3"	19'- 6"						1'- 0"				
																		APPROACH SLAB # 1																	
																			22	5	27'- 6"	1EAS501	STR	27'- 6"											
																			34	9	20'- 9"	1EAS901	1	1'- 3"	19'- 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 M31 (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 IN BAR MARK PREFIX DENOTES EPOXY COATED REINFORCING STEEL.



ASTM STANDARD REINFORCING BARS				
BAR SIZE DESIGNATION	WBSHT 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: **BETHEL**
 PROJECT NUMBER: **BRF 022-1(14)**
 FILE NAME: **78M161** PLOT DATE: **1/11/2011**
 PROJECT MANAGER: **M.EVANS-MONGEON** DRAWN BY: **G. ROKES**
 DESIGNED BY: **S.SCRIBNER** CHECKED BY: **N. VAN DEN BER**
REINFORCING STEEL SCHEDULE SHEET #1 SHEET **84** OF **148**