STATE OF VERMONT
AGENCY OF TRANSPORTATION

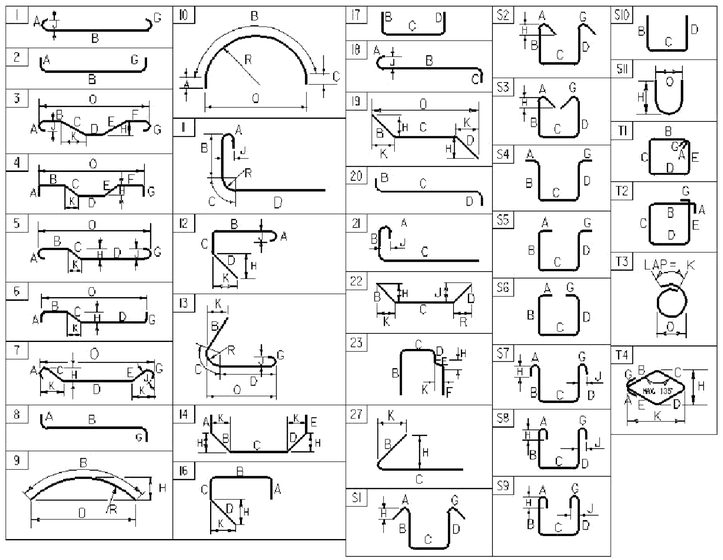
REINFORCING STEEL SCHEDULE

ITEM	EACH	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
DECK & CURB																	
⊹	705	5	37'- 1"	1ES501	STR	37'- 1"											
⊹	565	5	5'- 2"	1ES502	STR	5'- 2"											
	56	5	8'- 0"	1ES503	S5	0'- 6"	1'- 8"	0'- 10"	5'- 0"								
	774	5	5'- 5"	1ES504	S5	0'- 10"	1'- 2"	1'- 5"	1'- 2"			0'- 10"					
⊹	571	6	32'- 6"	1ES601	STR	32'- 6"											
	50	6	40'- 0"	1ES602	STR	40'- 0"											
	24	6	7'- 2"	1ES603	STR	7'- 2"											
ABUTMENT # 1																	
	42	5	23'- 4"	1A501	STR	23'- 4"											
	54	5	19'- 5"	1A502A	STR	19'- 5"											
▲	54	5	26'- 5"	1A502B	STR	26'- 5"											
	45	5	11'- 5"	1A503	16	2'- 2"	4'- 1"	2'- 2"	3'- 0"				2'- 1"		2'- 1"		
⊹	46	5	4'- 5"	1A504	STR	4'- 5"											
	43	5	7'- 2"	1A508	19		3'- 7"	3'- 7"					2'- 6"		2'- 6"		
	43	5	3'- 8"	1A509	STR	3'- 8"											
	43	5	12'- 2"	1A510	S10		5'- 2"	1'- 10"	5'- 2"								
	43	5	6'- 5"	1A511	S10		3'- 8"	0'- 9"	2'- 0"								
▲	39	5	15'- 3"	1A512	STR	15'- 3"											
⊹	40	6	8'- 10"	1A602	STR	8'- 10"											
▲	6	6	21'- 11"	1A603	STR	21'- 11"											
	6	6	15'- 2"	1A604	STR	15'- 2"											
△	87	7	13'- 0"	1A701	STR	13'- 0"											
	84	8	17'- 7"	1A801	17		6'- 4"	11'- 3"									
	20	8	4'- 0"	1A802	17		1'- 6"	2'- 6"									
▲	20	8	5'- 10"	1A803	STR	5'- 10"											
WINGWALL # 1																	
⊹	41	5	4'- 5"	1W501	STR	4'- 5"											
▲	78	5	20'- 0"	1W502	STR	20'- 0"											
▲	40	5	21'- 2"	1W503	STR	21'- 2"											
▲	21	5	11'- 6"	1W504	STR	11'- 6"											
	40	5	6'- 2"	1W505	S10		2'- 2"	1'- 10"	2'- 2"								
▲	2	5	19'- 0"	1W506	19		3'- 0"	16'- 0"					1'- 3"		2'- 9"		
	2	5	28'- 5"	1W507	STR	28'- 5"											
	21	6	38'- 11"	1W601	STR	38'- 11"											
▲	79	8	16'- 4"	1W801	17		6'- 4"	10'- 0"									
	40	8	13'- 0"	1W802	STR	13'- 0"											
⊹ ▲	34	8	7'- 7"	1W803	STR	7'- 7"											
	22	8	3'- 6"	1W804	STR	3'- 6"											
WINGWALL # 2																	
	16	5	4'- 5"	2W501	STR	4'- 5"											
▲	46	5	13'- 8"	2W502	19		2'- 2"	11'- 6"					1'- 11"		1'- 1"		
▲	16	5	21'- 11"	2W503	STR	21'- 11"											
⊹ ▲	13	5	11'- 2"	2W504	STR	11'- 2"											
	16	5	5'- 11"	2W505	S10		2'- 2"	1'- 7"	2'- 2"								
	2	5	13'- 6"	2W506	19		2'- 1"	11'- 5"					1'- 2"		1'- 8"		
	8	5	4'- 11"	2W508	19		2'- 2"	2'- 9"					1'- 11"		1'- 1"		
	15	5	14'- 5"	2W509	22		2'- 2"	10'- 1"	2'- 2"				1'- 1"	1'- 1"	1'- 11"	1'- 11"	
⊹	20	6	14'- 11"	2W601	STR	14'- 11"											
	12	8	11'- 4"	2W801	17		1'- 3"	10'- 1"									
	16	8	11'- 9"	2W802	STR	11'- 9"											
⊹	13	8	8'- 8"	2W803	STR	8'- 8"											
▲	9	8	5'- 10"	2W804	STR	5'- 10"											
△	14	9	14'- 8"	2W901	17		4'- 7"	10'- 1"									
APPROACH SLAB # 1																	
⊹	22	5	37'- 7"	1EAS501	STR	37'- 7"											
	60	5	6'- 5"	1EAS502	S5	0'- 10"	1'- 8"	1'- 5"	1'- 8"			0'- 10"					
	10	5	20'-0"	ES501	STR												
⊹	41	9	20'- 9"	1EAS901	1	1'- 3"	19'- 6"							1'- 0"			
ABUTMENT # 2																	
⊹	45	5	5'- 2"	2A501	STR	5'- 2"											
	54	5	19'- 10"	2A502A	STR	19'- 10"											
▲	54	5	24'- 5"	2A502B	STR	24'- 5"											
▲	40	5	15'- 4"	2A503	STR	15'- 4"											
	40	5	6'- 6"	2A504	STR	6'- 6"											
	46	5	11'- 5"	2A505	16	2'- 2"	4'- 1"	2'- 2"	3'- 0"				2'- 1"		2'- 1"		
▲	6	5	22'- 1"	2A506	STR	22'- 1"											
	5	5	13'- 3"	2A507	STR	13'- 3"											
	43	5	7'- 2"	2A508	19		3'- 7"	3'- 7"					2'- 6"		2'- 6"		
	43	5	3'- 8"	2A509	STR	3'- 8"											
	43	5	12'- 2"	2A510	S10		5'- 2"	1'- 10"	5'- 2"								
	43	5	6'- 5"	2A511	S10		3'- 8"	0'- 9"	2'- 0"								

ITEM	EACH	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
	46	6	11'- 10"	2A601	17		1'- 2"	9'- 6"	1'- 2"								
	8	6	23'- 8"	2A602	STR	23'- 8"											
⊹	93	6	2'- 9"	2A603	STR	2'- 9"											
	44	7	24'- 2"	2A701	STR	24'- 2"											
	45	8	11'- 0"	2A801	STR	11'- 0"											
⊹	21	8	4'- 0"	2A802	17		1'- 6"	2'- 6"									
⊹	85	9	10'- 7"	2A901	17		1'- 7"	9'- 0"									
⊹	47	10	13'- 2"	2A1001	17		1'- 10"	9'- 6"	1'- 10"								
WINGWALL # 3																	
	18	5	5'- 2"	3W501	STR	5'- 2"											
▲	46	5	16'- 2"	3W502	19		2'- 2"	14'- 0"					1'- 0"		0'- 7"		
▲	18	5	22'- 1"	3W503	STR	22'- 1"											
⊹	15	5	13'- 3"	3W504	STR	13'- 3"											
	15	5	6'- 2"	3W505	S10		2'- 2"	1'- 10"	2'- 2"								
	2	5	14'- 7"	3W506	19		2'- 0"	12'- 7"					0'- 6"		2'- 0"		
	8	5	5'- 4"	3W508	19		2'- 2"	3'- 2"					1'- 10"		1'- 1"		
	15	5	14'- 11"	3W509	22		2'- 2"	10'- 7"	2'- 2"				1'- 1"		1'- 1"		
	18	6	11'- 6"	3W601	S10		1'- 0"	9'- 6"	1'- 0"								
	4	6	16'- 3"	3W602	STR	16'- 3"											
	47	6	2'- 9"	3W603	STR	2'- 9"											
⊹	3	6	9'- 6"	3W604	STR	9'- 6"											
⊹	23	7	16'- 3"	3W701	STR	16'- 3"											
⊹	15	8	11'- 0"	3W801	STR	11'- 0"											
	27	9	10'- 7"	3W901	17		1'- 7"	9'- 0"									
⊹	19	10	13'- 2"	3W1001	17		1'- 10"	9'- 6"	1'- 10"								
WINGWALL # 4																	
⊹	16	5	5'- 2"	4W501	STR	5'- 2"											
▲	44	5	16'- 2"	4W502	19		2'- 2"	14'- 0"					1'- 0"		0'- 7"		
▲	15	5	21'- 0"	4W503	STR	21'- 0"											
▲	15	5	12'- 2"	4W504	STR	12'- 2"											
	15	5	6'- 2"	4W505	S10		2'- 2"	1'- 10"	2'- 2"								
	2	5	15'- 2"	4W506	19		5'- 2"	10'- 0"					2'- 2"		4'- 8"		
	38	5	10'- 3"	4W507	19		2'- 2"	8'- 1"					0'- 7"		2'- 1"		
	16	6	11'- 6"	4W601	S10		1'- 0"	9'- 6"	1'- 0"								
	4	6	14'- 6"	4W602	STR	14'- 6"											
⊹	44	6	2'- 9"	4W603	STR	2'- 9"											
	2	6	9'- 6"	4W604	STR	9'- 6"											
⊹	23	7	14'- 6"	4W701	STR	14'- 6"											
⊹	16	8	11'- 0"	4W801	STR	11'- 0"											
⊹	31	9	10'- 7"	4W901	17		1'- 7"	9'- 0"									
	16	10	13'- 2"	4W1001	17		1'- 10"	9'- 6"	1'- 10"								
APPROACH SLAB # 2																	
⊹	22	5	37'- 7"	2EAS501	STR	37'- 7"											
	60	5	6'- 5"	2EAS502	S5	0'- 10"	1'- 8"	1'- 5"	1'- 8"			0'- 10"					
	10	5		ES501	STR	20'-0"											
⊹	41	9	20'- 9"	2EAS901	1	1'- 3"	19'- 6"							1'- 0"			
PIER																	
△	39	5	7'- 8"	P501	S10		2'- 2"	3'- 4"	2'- 2"								
△	232	5	5'- 4"	P502	S10		1'- 0"	3'- 4"	1'- 0"								
	110	6	3'- 8"	P601	STR	3'- 8"											
⊹	7	6	37'- 4"	P602	STR	37'- 4"											
⊹	7	6	14'- 0"	P603	STR	14'- 0"											
	60	7	37'- 4"	P701	STR	37'- 4"											
⊹ ▲	93	7	20'- 10"	P702	STR	20'- 10"											
⊹	75	7	12'- 8"	P703	STR	12'- 8"											
	46	7	13'- 8"	P704	S11	5'- 2"	3'- 4"	5'- 2"					5'- 2"				3'- 4"
⊹	17	8	37'- 4"	P801	STR	37'- 4"											
⊹	40	8	16'- 8"	P802	17		1'- 4"	14'- 0"	1'- 4"								
⊹	155	9	17'- 2"	P901	17		1'- 7"	14'- 0"	1'- 7"								
⊹	145	9	18'- 7"	P902	17		1'- 7"	17'- 0"									
	22	9	18'-7"	P903			1'-7"	17'-0"									

~ NOTES ~

1. 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-SI). ALL BARS SHALL BE GRADE 60, UNLESS OTHERWISE DESIGNATED.
2. 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".
3. BARS WHICH REQUIRE MORE ACCURATE BENDING THAN STANDARD PRACTICES SHOULD HAVE LIMITS INDICATED.
4. ALL DIMENSIONS ARE OUT TO OUT OF BAR EXCEPT "A" AND "G" ON STANDARD 180 DEGREE AND 135 DEGREE HOOKS.
5. "J" DIMENSION ON 180 DEGREE HOOKS TO BE SHOWN ONLY WHERE NECESSARY TO RESTRICT HOOK SIZE. OTHERWISE, STANDARD HOOKS ARE TO BE USED.
6. "H" DIMENSION ON STIRRUPS TO BE SHOWN ONLY WHEN NECESSARY TO MAINTAIN CLEARANCES.
7. WHERE SLOPE DIFFERS FROM 45 DEGREES, DIMENSIONS "H" AND "K" MUST BE SHOWN.
8. ▲ DENOTES BARS TO BE CUT IN FIELD.
9. ⊹ DENOTES ONE EXTRA BAR ADDED FOR TESTING PURPOSES.
10. △ DENOTES TWO EXTRA BARS ADDED FOR TESTING PURPOSES.
11. 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 INCHES²	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: MORETOWN-MIDDLESEX
PROJECT NUMBER: BRS 0284(14)

FILE NAME: 78f219
PROJECT MANAGER: M.EVANS-MONGEON
DESIGNED BY: S.SCRIBNER
REINFORCING STEEL SCHEDULE SHEET #1

PLOT DATE: 5/8/2009
DRAWN BY: L.DUQUETTE
CHECKED BY: S. SCRIBNER
SHEET 71 OF 103