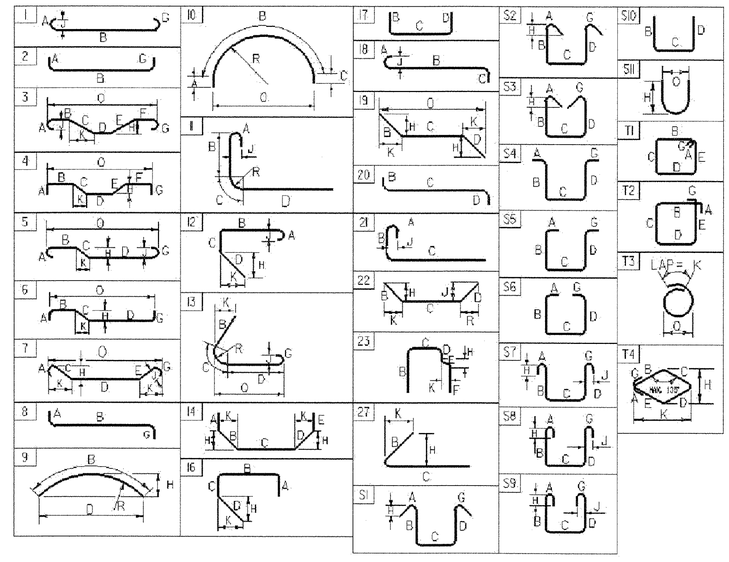
STATE OF VERMONT
AGENCY OF TRANSPORTATION

REINFORCING STEEL SCHEDULE

ITEM	EACH	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
	DECK																
✳	829	5	22'- 3"	ES501	STR												
✳	99	5	32'- 3"	ES502	STR												
	409	5	12'- 6"	ES503	S5	2'- 2"	1'- 6"	5'- 2"	1'- 6"			2'- 2"					
	88	5	8'- 4"	ES504	S5	2'- 2"	1'- 0"	2'- 0"	1'- 0"			2'- 2"					
	544	5	5'- 0"	ES505	S5	1'- 0"	1'- 3"	0'- 8"	1'- 1"			1'- 0"					
✳	19	5	9'- 10"	ES506	14	2'- 2"	2'- 3"	1'- 0"	2'- 3"	2'- 2"			2'- 0"		1'- 11"		
✳	829	6	22'- 3"	ES601	STR												
	719	6	32'- 3"	ES602	STR												
	43	6	41'- 0"	ES603A	STR												
✳	44	6	31'- 7"	ES603B	STR												
	APPROACH SLAB #1																
	21	5	29'- 6"	1EAS501	STR												
✳ ▲	42	9	21'- 3"	1EAS901	1	---	20'- 0"					1'- 3"		1'- 0"			
	APPROACH SLAB #2																
	21	5	29'- 6"	2EAS501	STR												
✳ ▲	42	9	20'- 10"	2EAS901	1	---	19'- 7"					1'- 3"		1'- 0"			
	ABUTMENT #1																
	40	5	24'- 0"	1A501	STR												
	43	5	4'- 2"	1A502	STR												
	47	5	8'- 6"	1A503	STR												
	30	5	20'- 1"	1A504A	STR												
	30	5	23'- 11"	1A504B	STR												
▲	43	5	11'- 10"	1A505	STR												
	29	5	11'- 3"	1A506A	16	2'- 2"	3'- 9"	1'- 1"	4'- 3"				3'- 0"		3'- 0"		
	14	5	9'- 6"	1A506B	16	2'- 2"	2'- 6"	2'- 4"	2'- 6"				1'- 9"		1'- 9"		
	43	5	7'- 4"	1A507A	19		6'- 4"	1'- 0"	---								---
	44	5	7'- 4"	1A507B	STR												
✳ ▲	12	5	20'- 1"	1A508A	STR												
✳ ▲	12	5	23'- 10"	1A508B	STR												
▲	29	5	6'- 2"	1A509	17		2'- 2"	1'- 10"	2'- 2"								
▲	43	5	5'- 9"	1A510	S10		2'- 7"	0'- 7"	2'- 7"								
	18	5	8'- 5"	1A511	17		2'- 2"	6'- 3"	---								
	18	5	6'- 11"	1A512	17		2'- 2"	4'- 9"	---								
	5	5	11'- 7"	1A513	19		2'- 2"	7'- 3"	2'- 2"								
	4	5	7'- 0"	1A514	17		2'- 6"	2'- 0"	2'- 6"				---		---		---
	8	5	3'- 0"	1A515	STR												
	49	7	10'- 7"	1A701	17		5'- 6"	5'- 1"	---			---					
	36	7	11'- 4"	1A702	17		9'- 6"	1'- 10"	---			---					
▲	43	7	11'- 10"	1A703	STR												
	47	8	10'- 4"	1A801	1	0'- 11"	8'- 6"					0'- 11"		0'- 8"			
▲	15	8	3'- 4"	1EA802	19		1'- 0"	2'- 4"					0'- 9"		0'- 9"		
	WINGWALL #1																
	20	5	23'- 10"	1W501	STR												
	16	5	8'- 6"	1W502	STR												
	21	5	4'- 2"	1W503	STR												
▲	21	5	16'- 9"	1W504	STR												
	36	5	16'- 6"	1W505	STR												
	17	5	5'- 11"	1W506	17		2'- 2"	1'- 7"	2'- 2"								0'- 6"
	4	5	16'- 1"	1W507	STR												
	23	5	12'- 2"	1W508	17		5'- 9"	0'- 8"	5'- 9"								
✳ ▲	20	6	10'- 4"	1W601	STR												
	20	8	10'- 4"	1W801	1	0'- 11"	8'- 6"					0'- 11"		0'- 8"			
	19	9	14'- 7"	1W901	17		11'- 0"	3'- 7"	---								
	19	9	11'- 7"	1W902	17		9'- 0"	2'- 7"	---								
	WINGWALL #2																
	20	5	28'- 6"	2W501	STR												
	21	5	8'- 6"	2W502	STR												
	26	5	4'- 2"	2W503	STR												
▲	26	5	16'- 9"	2W504	STR												
	36	5	16'- 6"	2W505	STR												
	22	5	5'- 11"	2W506	17		2'- 2"	1'- 7"	2'- 2"								
	4	5	21'- 4"	2W507	STR												
	29	5	12'- 2"	2W508	17		5'- 9"	0'- 8"	5'- 9"								
▲	24	6	10'- 4"	2W601	STR												
	24	8	10'- 4"	2W801	1	0'- 11"	8'- 6"					0'- 11"		0'- 8"			
	24	9	14'- 7"	2W901	17		11'- 0"	3'- 7"	---								
	25	9	3'- 4"	2W902	17		0'- 9"	2'- 7"	---								
	ABUTMENT #2																
	44	5	25'- 0"	2A501	STR												
	24	5	9'- 6"	2A502	STR												
	43	5	5'- 8"	2A503	STR												
	62	5	27'- 9"	2A504	STR												
	43	5	18'- 2"	2A505	STR												
▲	43	5	7'- 7"	2A506	STR												
	43	5	7'- 0"	2A507	S10		3'- 3"	0'- 6"	3'- 3"								
	28	5	6'- 2"	2A508	S10		2'- 2"	1'- 10"	2'- 2"								
	28	5	11'- 3"	2A509A	16	2'- 2"	3'- 9"	1'- 1"	4'- 3"				3'- 0"		3'- 0"		
	14	5	9'- 6"	2A509B	16	2'- 2"	2'- 6"	2'- 4"	2'- 6"				1'- 9"		1'- 9"		
▲	43	5	7'- 8"	2A510	19		1'- 0"	6'- 8"	---				0'- 8"	---	0'- 8"	---	
	44	5	7'- 4"	2A511	STR												
▲	56	5	11'- 7"	2A512	17		2'- 2"	9'- 5"	---								
▲	56	5	10'- 1"	2A513	17		2'- 2"	7'- 11"	---								
	32	5	14'- 5"	2A514	14	---	2'- 2"	10'- 1"	2'- 2"	---			1'- 6"		1'- 6"		
	16	5	11'- 7"	2A515	14	---	2'- 2"	7'- 3"	2'- 2"	---			1'- 6"		1'- 6"		
	4	5	7'- 0"	2A516	S10		2'- 6"	2'- 0"	2'- 6"								
	8	5	3'- 0"	2A517	STR												
	60	8	3'- 6"	2A801	STR												
▲	15	8	3'- 4"	2EA802	19		1'- 0"	2'- 4"	---				0'- 8"	---	0'- 8"	---	
	37	9	9'- 6"	2A901	STR												
▲	43	9	13'- 3"	2A902	STR												
	33	11	24'- 1"	2A1101	17		5'- 7"	18'- 6"	---								
	32	11	17'- 9"	2A1102	17		2'- 6"	15'- 3"	---								
	WINGWALL #3																
	30	5	26'- 6"	3W501	STR												
	19	5	14'- 0"	3W502	STR												
	24	5	5'- 8"	3W503	STR												
	32	5	23'- 6"	3W504	STR												
	25	5	17'- 5"	3W505	STR												
▲	32	5	31'- 6"	3W506	STR												
▲	34	5	14'- 9"	3W507	STR												
	31	5	6'- 4"	3W508	20		3'- 0"	0'- 10"	2'- 6"								
	45	5	6'- 4"	3W509	S10		2'- 10"	0'- 8"	2'- 10"								
▲	3	5	23'- 0"	3W510	STR												
	20	8	3'- 6"	3W801	STR												
✳ ▲	32	8	11'- 6"	3W802	STR												
	25	9	11'- 9"	3W901	20		4'- 10"	1'- 0"	5'- 11"								
	28	11	14'- 0"	3W1103	STR												
▲	28	11	26'- 0"	3W1101	17		7'- 6"	18'- 6"	---								
	19	11	22'- 9"	3W1102	17		7'- 6"	15'- 3"	---								
	WINGWALL #4																
	30	5	26'- 6"	4W501	STR												
	19	5	14'- 0"	4W502	STR												
	24	5	5'- 8"	4W503	STR												
	32	5	23'- 6"	4W504	STR												
	25	5	17'- 5"	4W505	STR												
▲	32	5	31'- 6"	4W506	STR												
▲	34	5	14'- 9"	4W507	STR												
	31	5	6'- 4"	4W508	20		3'- 0"	0'- 10"	2'- 6"								
	45	5	6'- 4"	4W509	S10		2'- 10"	0'- 8"	2'- 10"								
▲	3	5	23'- 0"	4W510	STR												
	20	8	3'- 6"	4W801	STR												
✳ ▲	32	8	11'- 6"	4W802	STR												
	25	9	11'- 9"	4W901	20		4'- 10"	1'- 0"	5'- 11"								
	19	10	14'- 0"	4W1003	STR												
▲	28	11	26'- 0"	4W1101	17		7'- 6"	18'- 6"	---								
	19	11	22'- 9"	4W1102	17		7'- 6"	15'- 3"	---								
	PIER																
	5	5	14'- 7"	P501	10	2'- 2"	10'- 3"	2'- 2"								3'- 3"	6'- 6"
	5	5	10'- 10"	P502	17		2'- 2"	6'- 6"	2'- 2"								
	6	5	24'- 11"	P503	STR												
	52	5	13'- 0"	P504	17		3'- 3"	6'- 6"	3'- 3"								
	17	5	6'- 0"	P505	17		1'- 0"	4'- 0"	1'- 0"								
	24	5	8'- 7"	P506	10	2'- 2"	4'- 3"	2'- 2"								1'- 4"	2'- 8"
	24	5	25'- 4"	P507	STR												
	32	5	10'- 4"	P508	17		3'- 10"	2'- 8"	3'- 10"								
▲	32	5	38'- 4"	P509	STR												
	277	5	4'- 0"	P510	T5	0'- 8"	2'- 8"					0'- 8"	0'- 6"				
▲	24	5	14'- 3"	P511	STR												
	58	7	7'- 9"	P701	STR												
✳ ▲	59	7	25'- 11"	P702	STR												
▲	22	10	28'- 2"	P1001	STR												
✳	17	10	14'- 2"	P1002	17		---	11'- 6"	2'- 8"								
	DRIVEWAY RETAINING WALL																
✳ ▲	34	5	8'- 9"	1R501	STR												
▲	18	5	31'- 6"	1R502	STR												
	10	5	26'- 6"	1R503	STR												
	5	5	14'- 2"	1R504	S6	2'- 2"	0'- 8"	8'- 6"	0'- 8"			2'- 2"					
▲	28	5	11'- 7"	1R505	S6	2'- 2"	0'- 8"	8'- 9"	---			---					
	28	5	2'- 11"	1R506	STR												
	2	5	31'- 6"	1R507	19		8'- 8"	22'- 10"	---				0'- 1"		8'- 9"		
	57	6	5'- 6"	1R601	STR												
△	30	7	5'- 9"	1R701	17		1'- 10"	3'- 11"	---								
	STAIRWAY RETAINING WALL																
	4	4	5'- 6"	2R401	STR												
✳	6	4	11'- 6"	2R402	1	0'- 6"	11'- 0"					---		0'- 4"			
	14	4	8'- 0"	2R403	1	0'- 6"	7'- 6"					---		0'- 4"			
	1	4	7'- 6"	2R404	20		2'- 0"	3'- 6"	2'- 0"								
	9	4	26'- 5"	2R405	19		8'- 6"	9'- 6"	---			8'- 5"		1'- 1"			
	4	4	3'- 5"	2R406	17		1'- 5"	2'- 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 M 31 (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: RANDOLPH
PROJECT NUMBER: BRF 0241(29)

FILE NAME: /str5/88j096/sj096xcl.dgn
PROJECT MANAGER: W. SYMONDS
DESIGNED BY: T. SUMNER
REINFORCING STEEL SCHEDULE SHEET #1

PLOT DATE: 8/25/2006
DRAWN BY: R. PELLETT
CHECKED BY: T. FILLBACH
SHEET 84 OF 135