STATE OF VERMONT
AGENCY OF TRANSPORTATION

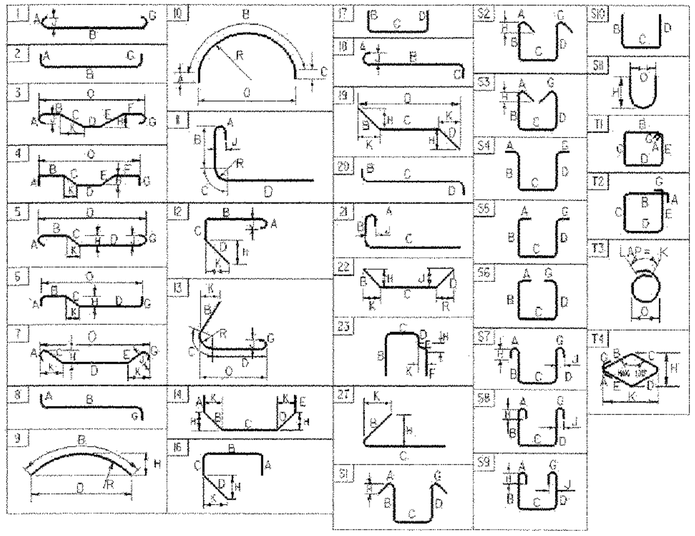
REINFORCING STEEL SCHEDULE

ITEM	EACH	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
SUPERSTRUCTURE																	
✳	265	5	24'- 1"	ES501	STR												
	189	5	6'- 0"	ES502	S5	0'- 7"	1'- 8"	1'- 6"	1'- 8"			0'- 7"					
▲	20	5	39'- 11"	ES503	STR												
	58	5	9'- 2"	ES504	S5	1'- 0"	3'- 4"	0'- 9"	3'- 1"			1'- 0"					
	72	5	10'- 6"	ES505	16	2'- 3"	1'- 11"	0'- 8"	2'- 4"				1'- 8"		1'- 8"		
✳	109	6	24'- 1"	ES601	STR												
	134	6	18'- 5"	ES602	STR												
	134	6	25'- 6"	ES603	STR												
	134	6	28'- 3"	ES604	STR												
	134	6	15'- 5"	ES605	STR												
	42	8	2'- 5"	ES801	19		1'- 5"	1'- 0"	---								
APPROACH SLAB #1																	
✳	22	5	36'- 6"	1EAS501	STR	36'- 6"											
✳	42	9	20'- 9"	1EAS901	1	1'- 3"	19'- 6"					---		1'- 0"			
APPROACH SLAB #2																	
✳	22	5	32'- 6"	2EAS501	STR												
✳	42	9	20'- 9"	2EAS901	1	1'- 3"	19'- 6"					---		1'- 0"			
ABUTMENT #1																	
	44	5	24'- 4"	1A501	STR												
	48	5	9'- 6"	1A502	STR												
✳	52	5	5'- 2"	1A503	STR												
	51	5	8'- 10"	1A504	STR												
✳	91	5	9'- 8"	1A505	STR												
	32	5	12'- 6"	1A506	STR												
	34	5	25'- 9"	1A507	STR												
	34	5	11'- 6"	1A508	STR												
	10	5	12'- 2"	1A509	STR												
	48	5	6'- 2"	1A510	S10		2'- 2"	1'- 10"	2'- 2"								
▲	42	5	6'- 4"	1A511	19		2'- 2"	4'- 2"	---				1'- 5"		1'- 8"		
	21	5	4'- 4"	1A512	19		2'- 2"	2'- 2"	---				1'- 5"		1'- 8"		
	17	5	13'- 10"	1A513	22		2'- 2"	9'- 6"	2'- 2"				1'- 1"	1'- 1"	1'- 11"		
▲	27	5	5'- 2"	1A514	19		2'- 2"	3'- 0"	---				1'- 11"		1'- 1"		
✳	97	6	9'- 6"	1A601	STR												
✳	48	7	8'- 10"	1A701	STR												
✳	48	9	9'- 2"	1A901	2	1'- 7"	7'- 7"					---					
WINGWALL #1																	
	20	5	13'- 10"	1W501	STR												
				1W502		NOT	USED										
	14	5	12'- 5"	1W503	17		5'- 2"	7'- 3"	---								
▲	14	5	18'- 9"	1W504	STR												
▲	44	5	12'- 8"	1W505	STR												
▲	13	5	9'- 7"	1W506	S10		4'- 0"	1'- 7"	4'- 0"								
	2	5	13'- 0"	1W507	19		1'- 9"	11'- 3"	---				0'- 7"		1'- 9"		
	14	6	9'- 3"	1W601	STR												
	15	7	9'- 3"	1W701	STR												
▲	13	7	13'- 3"	1W702	STR												
	14	9	12'- 10"	1W901	2	3'- 7"	9'- 3"					---					
	13	9	13'- 7"	1W902	2	1'- 7"	12'- 0"					---					
WINGWALL #2																	
	20	5	13'- 10"	2W501	STR												
				2W502		NOT	USED										
	14	5	12'- 5"	2W503	17		5'- 2"	7'- 3"	---								
	14	5	17'- 1"	2W504	STR												
▲	42	5	13'- 1"	2W505	STR												
▲	13	5	10'- 9"	2W506	S10		4'- 7"	1'- 7"	4'- 7"								
	2	5	13'- 3"	2W507	19		2'- 3"	11'- 0"	---				0'- 6"		2'- 3"		
	14	6	9'- 3"	2W601	STR												
	15	7	9'- 3"	2W701	STR												
	13	7	11'- 6"	2W702	STR												
	14	9	12'- 10"	2W901	2	3'- 7"	9'- 3"					---					
	13	9	13'- 7"	2W902	2	1'- 7"	12'- 0"					---					

ITEM	EACH	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
ABUTMENT #2																	
	44	5	22'- 0"	2A501	STR												
	42	5	9'- 6"	2A502	STR												
✳	49	5	5'- 2"	2A503	STR												
▲	48	5	15'- 6"	2A504	STR												
	42	5	8'- 5"	2A505	STR												
	30	5	10'- 4"	2A506	STR												
	32	5	25'- 2"	2A507	STR												
	34	5	8'- 3"	2A508	STR												
	15	5	4'- 4"	2A509	19		2'- 2"	2'- 2"	---						1'- 11"		1'- 1"
	17	5	12'- 5"	2A510	22		2'- 2"	8'- 1"	2'- 2"						1'- 5"	1'- 5"	1'- 8"
	15	5	14'- 2"	2A511	22		2'- 2"	9'- 10"	2'- 2"						1'- 2"	1'- 2"	1'- 10"
	42	5	8'- 2"	2A512	S10		2'- 2"	1'- 10"	2'- 2"								
	17	5	4'- 4"	2A513	19		2'- 2"	2'- 2"	---						2'- 2"		0'- 4"
▲	12	5	5'- 2"	2A514	19		2'- 2"	3'- 0"	---						1'- 11"		1'- 1"
✳	43	6	9'- 6"	2A601	STR												
✳	43	7	9'- 6"	2A701	STR												
	42	7	12'- 7"	2A702	2	3'- 10"	8'- 9"										
	46	7	13'- 5"	2A703	2	1'- 2"	12'- 3"					---					
WINGWALL #3																	
	18	5	20'- 4"	3W501	STR												
	19	5	12'- 5"	3W502	17		5'- 2"	7'- 3"	---								
✳	19	5	7'- 1"	3W503	STR												
▲	19	5	17'- 1"	3W504	STR												
▲	32	5	18'- 6"	3W505	STR												
▲	17	5	10'- 9"	3EW506	S10		4'- 7"	1'- 7"	4'- 7"								
	8	5	16'- 6"	3W507	STR												
	5	5	16'- 6"	3EW508	STR												
	21	6	8'- 3"	3W601	STR												
	21	7	8'- 3"	3W701	STR												
	18	7	7'- 3"	3W702	STR												
	17	9	11'- 11"	3W901	2	2'- 7"	9'- 4"					---					
	18	9	14'- 0"	3W902	2	1'- 7"	12'- 5"					---					
WINGWALL #4																	
	20	5	12'- 10"	4W501	STR												
	13	5	12'- 5"	4W502	17		5'- 2"	7'- 3"	---								
	12	5	8'- 0"	4W503	STR												
▲	13	5	16'- 0"	4W504	STR												
▲	38	5	11'- 8"	4W505	STR												
▲	12	5	11'- 1"	4W506	S10		4'- 9"	1'- 7"	4'- 9"								
	2	5	12'- 3"	4W507	19		1'- 10"	10'- 5"	---				0'- 8"		1'- 9"		
	13	6	9'- 3"	4W601	STR												
	14	7	9'- 3"	4W701	STR												
	12	7	14'- 10"	4W702	2	1'- 7"	13'- 3"					---					
	11	8	9'- 4"	4W801	STR												
WELL BARRIER																	
	28	5	19'- 6"	WB501	STR												
	21	5	8'- 5"	WB502	17		---	5'- 0"	3'- 5"								
✳	43	5	7'- 3"	WB503	STR												
	21	5	4'- 0"	WB504	S10		1'- 6"	1'- 0"	1'- 6"								
	21	6	4'- 2"	WB601	17		3'- 5"	0'- 9"									
✳	22	7	5'- 0"	WB701	STR												
WELL HEAD																	
	52	5	2'- 11"	WH501	STR												
	8	5	15'- 4"	WH502	17		4'- 4"	6'- 8"	4'- 4"								
	8	5	12'- 8"	WH503	17		3'- 8"	5'- 4"	3'- 8"								
✳ ▲	27	5	7'- 10"	WH504	1	0'- 7"	6'- 8"					0'- 7"		0'- 5"			
	4	5	3'- 10"	WH505	STR												
	12	5	1'- 9"	WH506	STR												
	12	8	3'- 0"	WH801	STR												

~ 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: READING
PROJECT NUMBER: BRS 0148(6)S

FILE NAME: PW/85e034/Structures/s85e034rss.xls
PROJECT MANAGER: R. WHITCOMB
DESIGNED BY: T. FILLBACH
REINFORCING STEEL SCHEDULE SHEET #1

PLOT DATE: 2/7/2006
DRAWN BY: L. BULLOCK
CHECKED BY: D. BONNEAU
SHEET 60 OF 83