STATE OF VERMONT
AGENCY OF TRANSPORTATION

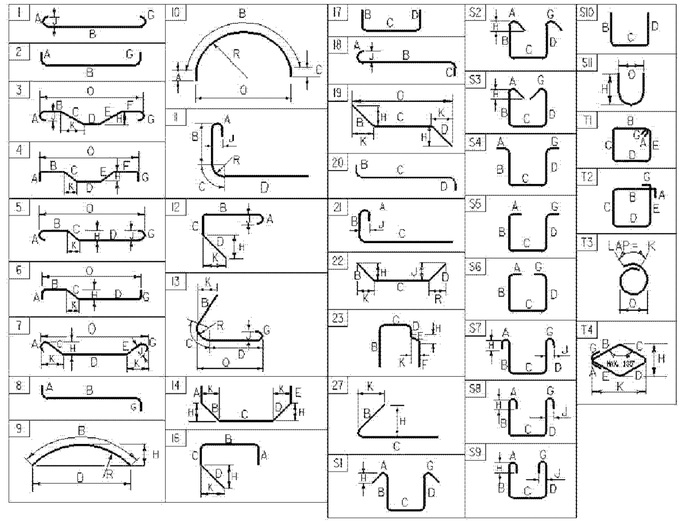
REINFORCING STEEL SCHEDULE

ITEM	EACH	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
	DECK																
▲	8	5	38'- 10"	ES401	STR	38'- 10"											
△	10	5	20'- 0"	ES402	STR	20'- 0"											
	450	5	24'- 10"	ES501	STR	24'- 10"											
△	170	5	46'- 10"	ES502	STR	46'- 10"											
△	532	6	10'- 4"	ES601	S5	5'- 0"	0'- 10"	0'- 11"	0'- 7"			3'- 0"					
	APPROACH SLAB #1																
	26	5	31'- 1"	1EAS501	STR	31'- 1"											
△	36	9	25'- 8"	1EAS901	1	1'- 3"	24'- 5"					---		1'- 0"			
	APPROACH SLAB #2																
▲	26	5	39'- 0"	2EAS501	STR	39'- 0"											
▲	34	9	26'- 5"	2EAS901	1	1'- 3"	25'- 2"					---		1'- 0"			
	ABUTMENT #1																
	20	5	43'- 8"	1A501	STR	43'- 8"											
▲	88	5	7'- 0"	1A502	STR	7'- 0"											
△	90	5	6'- 3"	1A503	STR	6'- 3"											
▲	16	5	43'- 0"	1A504	STR	43'- 0"											
	44	5	8'- 2"	1A505	S10		2'- 2"	3'- 10"	2'- 2"								
	45	5	5'- 11"	1A506	S10		2'- 2"	1'- 7"	2'- 2"								
	39	5	8'- 3"	1A507	S10		3'- 9"	0'- 9"	3'- 9"								
	5	5	12'- 4"	1A508	22		2'- 2"	8'- 0"	2'- 2"				2'- 0"	2'- 0"	0'- 11"	0'- 11"	
	5	5	10'- 8"	1A509	27		5'- 4"	5'- 4"					4'- 2"		3'- 4"		
	10	5	7'- 7"	1A510	22		2'- 2"	5'- 5"	---				1'- 8"	---	1'- 4"	---	
	6	5	4'- 4"	1A511	22		2'- 2"	2'- 2"	---				1'- 8"	---	1'- 4"	---	
	12	5	4'- 4"	1A512	27		2'- 2"	2'- 2"					1'- 8"		1'- 4"		
	6	5	7'- 0"	1A513	27		3'- 6"	3'- 6"					2'- 9"		2'- 2"		
	18	5	5'- 6"	1A514	22		2'- 2"	3'- 4"	---				1'- 8"	---	1'- 4"	---	
△	102	7	9'- 3"	1A701	STR	9'- 3"											
	88	7	10'- 11"	1A702	1	0'- 10"	9'- 3"					0'- 10"		0'- 7"			
	26	8	2'- 6"	1EA801	22		1'- 0"	1'- 6"	---				0'- 9"	---	0'- 9"	---	
	WINGWALL #1																
	16	5	24'- 6"	1W501	STR	24'- 6"											
	42	5	4'- 11"	1W502	STR	4'- 11"											
	41	5	6'- 6"	1W503	STR	6'- 6"											
▲	42	5	11'- 3"	1W504	STR	11'- 3"											
	10	5	22'- 9"	1W505A	STR	22'- 9"											
	14	5	20'- 3"	1W505B	STR	20'- 3"											
	41	5	7'- 8"	1W506	1	0'- 7"	6'- 6"					0'- 7"		0'- 5"			
	21	5	5'- 11"	1W507	S10		2'- 2"	1'- 7"	2'- 2"								
	2	5	20'- 3"	1W511	STR	20'- 3"											
	WINGWALL #2																
	10	5	4'- 11"	2W501	STR	4'- 11"											
▲	28	5	8'- 9"	2W502	STR	8'- 9"											
▲	12	5	13'- 7"	2W503A	STR	13'- 7"											
▲	24	5	12'- 11"	2W503B	STR	12'- 11"											
	14	5	5'- 11"	2W504	S10		2'- 2"	1'- 7"	2'- 2"								
	2	5	17'- 4"	2W505	22		6'- 10"	10'- 6"	---				4'- 10"	---	4'- 10"	---	

ITEM	EACH	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
	ABUTMENT #2																
	22	5	11'- 0"	2A501	STR	11'- 0"											
	12	5	4'- 11"	2A502	STR	4'- 11"											
	16	5	15'- 0"	2A503	STR	15'- 0"											
△	45	5	5'- 9"	2A504	STR	5'- 9"											
	16	5	29'- 7"	2A505	STR	29'- 7"											
				2A506		THIS BAR NOT USED											
	12	5	14'- 2"	2A507	STR	14'- 2"											
	20	5	9'- 4"	2A508	STR	9'- 4"											
	16	5	9'- 6"	2A509	STR	9'- 6"											
	16	5	24'- 6"	2A510	STR	24'- 6"											
	52	5	4'- 11"	2A511	STR	4'- 11"											
	32	5	6'- 0"	2A512	STR	6'- 0"											
				2A513		THIS BAR NOT USED											
▲	12	5	28'- 6"	2A514	STR	28'- 6"											
	57	5	9'- 7"	2A515	17		3'- 10"	5'- 9"	---								
	5	5	15'- 8"	2A516	19		2'- 2"	11'- 4"	2'- 2"				1'- 7"		1'- 7"		14'- 6"
	11	5	11'- 4"	2A517	20		2'- 2"	7'- 0"	2'- 2"								
	5	5	10'- 0"	2A518	19		2'- 2"	5'- 8"	2'- 2"				1'- 7"		1'- 7"		8'- 10"
	11	5	8'- 4"	2A519	20		2'- 2"	4'- 0"	2'- 2"								
	52	5	10'- 11"	2A520	16		2'- 2"	3'- 6"	1'- 3"	4'- 0"			2'- 10"		2'- 10"		
	52	5	5'- 3"	2A521	22		1'- 0"	4'- 3"	---				0'- 9"	---	0'- 9"		---
	6	5	8'- 6"	2A522	27		4'- 3"	4'- 3"					2'- 9"		3'- 2"		
	6	5	9'- 4"	2A523	22		2'- 2"	5'- 0"	2'- 2"				2'- 0"	2'- 0"	0'- 9"	0'- 9"	
	23	5	4'- 4"	2A524	22		2'- 2"	2'- 2"	---				1'- 4"	---	1'- 8"		
	46	5	7'- 0"	2A525	22		2'- 2"	4'- 10"	---				1'- 4"	---	1'- 8"		---
	46	5	10'- 10"	2A526	S10		4'- 9"	1'- 4"	4'- 9"								
	52	5	8'- 1"	2A527	S10		3'- 9"	0'- 7"	3'- 9"								
	12	5	4'- 4"	2A528	27		2'- 2"	2'- 2"					1'- 5"		1'- 8"		
	28	5	2'- 6"	2EA501	22		1'- 0"	1'- 6"	---				0'- 9"	---	0'- 9"		---
△ ▲	84	7	10'- 0"	2A701	STR	10'- 0"											
	50	8	3'- 6"	2A801	STR	3'- 6"											
△	20	8	13'- 4"	2A802	17		3'- 7"	9'- 9"	---								
△	22	10	15'- 6"	2A1001	STR	15'- 6"											
	WINGWALL #3																
▲	14	5	39'- 4"	3W501	STR	39'- 4"											
	49	5	7'- 9"	3W502	STR	7'- 9"											
	33	5	3'- 11"	3W503	STR	3'- 11"											
▲	66	5	11'- 0"	3W504	STR	11'- 0"											
▲	24	5	33'- 0"	3W505	STR	33'- 0"											
	33	5	7'- 7"	3W506	17		3'- 7"	4'- 0"	---								
	33	5	5'- 11"	3W507	S10		2'- 2"	1'- 7"	2'- 2"								
	WINGWALL #4																
▲	18	5	18'- 9"	4W501	STR	18'- 9"											
	18	5	4'- 11"	4W502	STR	4'- 11"											
▲	18	5	20'- 0"	4W503	STR	20'- 0"											
	18	5	15'- 2"	4W504	STR	15'- 2"											
▲	42	5	18'- 9"	4W505	STR	18'- 9"											
	18	5	6'- 5"	4W506	S10		2'- 2"	2'- 1"	2'- 2"								
	36	7	13'- 10"	4W701	17		4'- 1"	9'- 9"	---								
△	38	9	11'- 6"	4W901	STR	11'- 6"											

~ 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 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: SPRINGFIELD
PROJECT NUMBER: BRO 1442(26)

FILE NAME: s95j282rss.xls
PROJECT MANAGER: K. HIGGINS
DESIGNED BY: J. GRIFFIN
REINFORCING STEEL SCHEDULE SHEET #1

PLOT DATE: 8/15/11
DRAWN BY: R. PELLETT
CHECKED BY: J. LACROIX