STATE OF VERMONT
AGENCY OF TRANSPORTATION

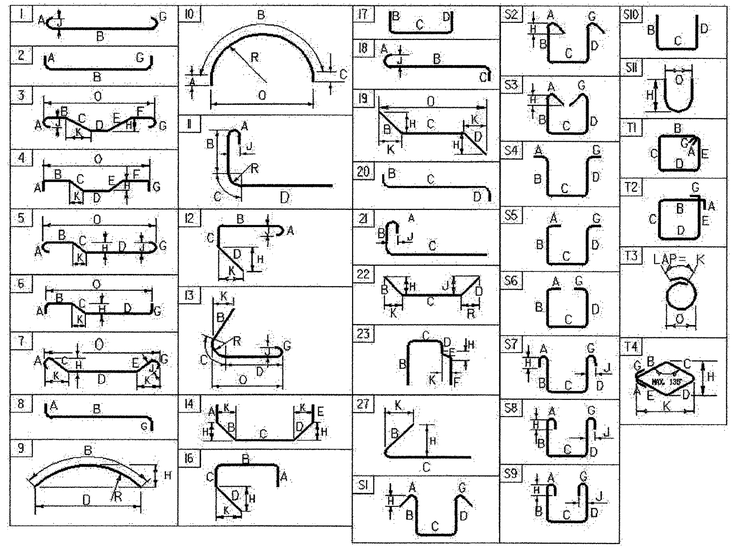
REINFORCING STEEL SCHEDULE

	EACH	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
87 S DECK																	
	342	5	28'- 10"	1S501	STR												
✳	311	5	21'- 4"	1S502	STR												
▲	8	5	36'- 5"	1S503	STR												
✳ ▲	49	5	21'- 6"	1S504	STR												
	30	5	5'- 0"	1S508	STR	(USE 8 PIECES FOR WINGWALLS @ 2 EACH PER WINGWALL)											
	232	5	6'- 3"	1S505	S5	1'- 0"	1'- 5"	1'- 5"	1'- 5"			1'- 0"					
	64	5	9'- 10"	1S506	S5	0'- 10"	3'- 10"	0'- 9"	3'- 7"			0'- 10"					
	74	5	5'- 7"	1S507	16	1'- 0"	1'- 9"	0'- 7"	2'- 3"								
✳	311	6	21'- 7"	1S601	STR												
✳ ▲	9	6	36'- 5"	1S602	STR												
	40	8	2'- 9"	1S801	19		1'- 0"	1'- 9"	----								
APPROACH SLAB NO.1																	
✳	43	5	19'- 6"	1AS501	STR												
✳	46	9	20'- 9"	1AS901	1	1'- 3"	19'- 6"										
APPROACH SLAB NO.2																	
✳	43	5	19'- 6"	2AS501	STR												
✳	46	9	20'- 9"	2AS901	1	1'- 3"	19'- 6"										
ABUTMENT NO. 1																	
	24	5	23'- 6"	1A501	STR												
	45	5	6'- 0"	1A502	STR												
✳ ▲	49	5	5'- 4"	1A503	STR												
	10	5	18'- 2"	1A505A	STR												
	10	5	24'- 10"	1A505B	STR												
▲	38	5	9'- 2"	1A504	17		5'- 4"	3'- 10"	----								
	21	5	6'- 2"	1A506	17		2'- 2"	1'- 10"	2'- 2"								
WINGWALL NO. 1																	
✳	15	5	6'- 0"	1W501	STR												
	8	5	3'- 11"	1W502	STR												
▲	25	5	7'- 8"	1W503	STR												
▲	22	5	13'- 6"	1W504	STR												
	19	5	7'- 5"	1W505	17		3'- 0"	1'- 5"	3'- 0"								
	2	5	10'- 10"	1W506	22		2'- 2"	6'- 6"	2'- 2"				1'- 11"	1'- 11"	1'- 0"	1'- 0"	
	4	5	4'- 4"	1W507	27		2'- 2"	2'- 2"					2'- 2"		0'- 3"		
	4	5	11'- 4"	1W508	22		2'- 2"	7'- 0"	2'- 2"				1'- 8"	1'- 8"	1'- 5"	1'- 5"	
✳	5	7	7'- 3"	1W701	STR												
	6	7	9'- 11"	1W702	17		6'- 4"	3'- 7"	----								
WINGWALL NO. 2																	
	14	5	8'- 6"	2W501	STR												
	10	5	3'- 11"	2W502	STR												
▲	31	5	8'- 5"	2W503	STR												
▲	24	5	15'- 6"	2W504	STR												
	21	5	7'- 5"	2W505	17		3'- 0"	1'- 5"	3'- 0"								
	2	5	10'- 10"	2W506	22		2'- 2"	6'- 6"	2'- 2"				1'- 11"	1'- 11"	1'- 0"	1'- 0"	
	5	5	4'- 4"	2W507	19		2'- 2"	2'- 2"	----				2'- 2"		0'- 3"		
	5	5	12'- 2"	2W508	22		2'- 2"	7'- 10"	2'- 2"				1'- 5"	1'- 5"	1'- 8"	1'- 8"	
✳	8	7	7'- 3"	2W701	STR												
	9	7	9'- 11"	2W702	17		6'- 4"	3'- 7"	----								

ITEM	EACH	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
ABUTMENT NO. 2																	
	24	5	23'- 7"	2A501	STR												
	45	5	6'- 0"	2A502	STR												
✳ ▲	49	5	5'- 10"	2A503	STR												
	10	5	27'- 0"	2A505A	STR												
	10	5	16'- 0"	2A505B	STR												
▲	38	5	9'- 8"	2A504	17		5'- 10"	3'- 10"	----								
	21	5	6'- 2"	2A506	17		2'- 2"	1'- 10"	2'- 2"								
WINGWALL NO. 3																	
	14	5	9'- 6"	3W501	STR												
	11	5	3'- 11"	3W502	STR												
✳ ▲	34	5	8'- 4"	3W503	STR												
▲	24	5	16'- 6"	3W504	STR												
	22	5	7'- 5"	3W505	17		3'- 0"	1'- 5"	3'- 0"								
	2	5	10'- 10"	3W506	22		2'- 2"	6'- 6"	2'- 2"				1'- 11"	1'- 11"	1'- 0"	1'- 0"	
	5	5	4'- 4"	3W507	19		2'- 2"	2'- 2"	----				2'- 2"		0'- 3"		
	5	5	12'- 2"	3W508	22		2'- 2"	7'- 10"	2'- 2"				1'- 5"	1'- 5"	1'- 8"	1'- 8"	
✳	9	7	7'- 3"	3W701	STR												
	10	7	9'- 11"	3W702	17		6'- 4"	3'- 7"	----								
WINGWALL NO. 4																	
	14	5	9'- 3"	4W501	STR												
	11	5	3'- 11"	4W502	STR												
▲	31	5	8'- 11"	4W503	STR												
▲	24	5	16'- 6"	4W504	STR												
	22	5	7'- 5"	4W505	17		3'- 0"	1'- 5"	3'- 0"								
	2	5	10'- 10"	4W506	22		2'- 2"	6'- 6"	2'- 2"				1'- 11"	1'- 11"	1'- 0"	1'- 0"	
	5	5	4'- 4"	4W507	27		2'- 2"	2'- 2"					2'- 2"		0'- 3"		
	5	5	11'- 4"	4W508	22		2'- 2"	7'- 0"	2'- 2"				1'- 8"	1'- 8"	1'- 5"	1'- 5"	
✳	8	7	7'- 3"	4W701	STR												
	9	7	9'- 11"	4W702	17		6'- 4"	3'- 7"	----								

~ 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 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

ALL STEEL DETAILED ON THIS SHEET TO BE EPOXY COATED

BR228

PROJECT NAME: **FAIRFAX-FAIRFIELD-ST. ALBANS**
PROJECT NUMBER: **IM 089 - 3 (27)**

FILE NAME: **\96a056\structures**
PROJECT LEADER: **R. R. WHITCOMB**
DESIGNED BY: **M. LOZIER**
BRIDGE 87S REINFORCING STEEL SCHEDULE

PLOT DATE: **9/20/00**
DRAWN BY: **G. ROY**
CHECKED BY: **P. PERRY**
SHEET 106 OF 370