STATE OF VERMONT
AGENCY OF TRANSPORTATION

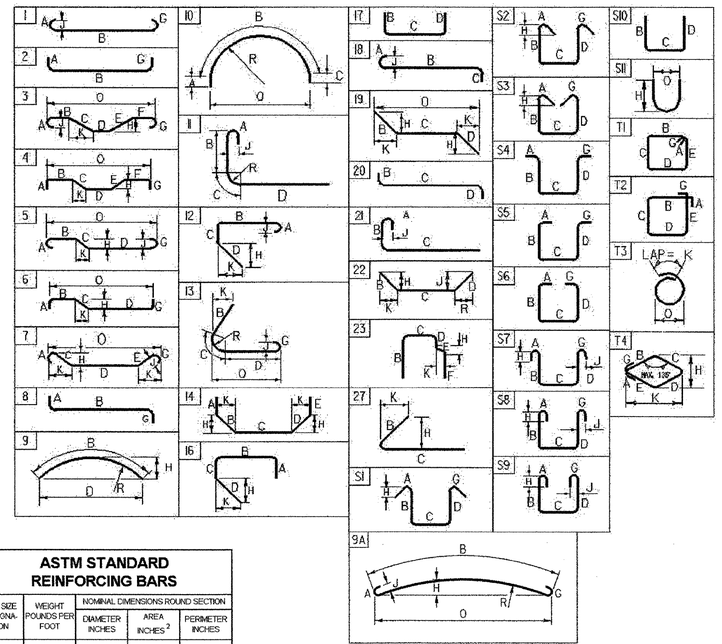
REINFORCING STEEL SCHEDULE

	EACH	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
SLAB																	
✳	10	5	18'- 8"	S501	STR												
✳	10	5	19'- 9"	S502	9		19'- 9"						2'- 9"			17'- 5"	18'- 9"
▲	9	5	34'- 9"	S503	9		34'- 9"						4'- 1"			36'- 5"	33'- 5"
	16	5	11'- 6"	S504A	S6	1'- 0"	2'- 8"	4'- 2"	2'- 8"			1'- 0"					
	16	5	10'- 4"	S504B	S6	1'- 0"	2'- 1"	4'- 2"	2'- 1"			1'- 0"					
	38	5	9'- 0"	S504C	S6	1'- 0"	1'- 5"	4'- 2"	1'- 5"			1'- 0"					
	68	5	7'- 5"	S505	S5	1'- 0"	2'- 4"	0'- 8"	2'- 5"			1'- 0"					
△ ▲	72	6	21'- 9"	S601	STR												
△	7	7	19'- 9"	S701	9		19'- 9"						2'- 9"			17'- 5"	18'- 9"
△ ▲	72	10	35'- 0"	S1001	9A	1'- 5"	33'- 7"					----	1'- 9"	1'- 1"		80'- 0"	33'- 4"
	9	10	34'- 9"	S1002	9		34'- 9"						4'- 1"			36'- 5"	33'- 5"
ABUTMENT NO. 1																	
	30	5	29'- 4"	1A501	STR												
	53	5	3'- 11"	1A502	STR												
	41	5	10'- 1"	1A503	STR												
	41	5	3'- 5"	1A504	STR												
	48	5	26'- 11"	1A505	STR												
✳ ▲	12	5	7'- 4"	1A506	STR												
▲	6	5	8'- 9"	1A507	STR												
▲	13	5	14'- 5"	1A508	STR												
	46	5	5'- 1"	1A509	S10		2'- 0"	1'- 1"	2'- 0"								
▲	2	5	8'- 11"	1A510	19		----	3'- 11"	5'- 0"				2'- 2"		4'- 5"		8'- 4"
▲	30	5	6'- 0"	1A511	19		----	3'- 0"	3'- 0"				2'- 7"		1'- 6"		4'- 6"
	52	8	9'- 3"	1A802	STR												
✳ ▲	24	8	5'- 2"	1A803	STR												
	103	8	10'- 4"	1A801	17		----	4'- 1"	6'- 3"								
△	60	9	9'- 0"	1A901	STR												
WINGWALL NO. 1																	
	7	5	3'- 11"	1W501	STR												
▲	10	5	14'- 4"	1W502	STR												
✳	10	5	7'- 4"	1W503	STR												
▲	30	5	8'- 5"	1W504	STR												
	6	5	4'- 1"	1W505	S10		1'- 6"	1'- 1"	1'- 6"								
	2	5	8'- 8"	1W506	19		3'- 0"	3'- 6"	2'- 2"								7'- 2"
✳ ▲	10	8	9'- 3"	1W802	STR												
	12	8	11'- 11"	1W801	17		----	5'- 8"	6'- 3"								
ABUTMENT NO. 2																	
	30	5	28'- 10"	2A501	STR												
	52	5	3'- 11"	2A502	STR												
	33	5	11'- 10"	2A503	STR												
▲	34	5	4'- 11"	2A504	STR												
	52	5	26'- 9"	2A505	STR												
✳ ▲	19	5	9'- 1"	2A506	STR												
▲	8	5	15'- 7"	2A507	STR												
▲	19	5	16'- 1"	2A508	STR												
	43	5	4'- 1"	2A509	S10		1'- 6"	1'- 1"	1'- 6"								
▲	2	5	16'- 1"	2A510	19		11'- 4"	4'- 9"	---				3'- 9"		10'- 7"		15'- 4"
▲	34	5	6'- 0"	2A511	19		----	3'- 0"	3'- 0"								4'- 6"
	52	8	9'- 3"	2A802	STR												
	17	8	5'- 2"	2A803	STR												
✳	103	8	10'- 4"	2A801	17		----	4'- 1"	6'- 3"								
△	59	9	9'- 0"	2A901	STR												

ITEM	EACH	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
WINGWALL NO. 4																	
	6	5	3'- 11"	4W501	STR												
▲	6	5	16'- 1"	4W502	STR												
▲	5	5	9'- 1"	4W503	STR												
✳	33	5	5'- 1"	4W504	STR												
	3	5	4'- 1"	4W505	S10		1'- 6"	1'- 1"	1'- 6"								
	2	5	5'- 1"	4W506	19		1'- 4"	3'- 9"	----								5'- 1"
	5	8	9'- 3"	4W802	STR												
✳	12	8	12'- 2"	4W801	17			5'- 11"	6'- 3"								
INLET HEADWALL																	
✳ ▲	5	5	13'- 4"	1H501	19		----	7'- 11"	5'- 5"								
OUTLET HEADWALL																	
△ ▲	6	5	6'- 5"	2H501	19		----	4'- 0"	2'- 5"								
▲	4	5	8'- 9"	2H502	19		----	4'- 0"	4'- 9"								

~ 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. ALL REINFORCING STEEL WILL BE EPOXY COATED



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

PROJECT NAME:	HALIFAX		
PROJECT NUMBER:	BRZ 1442 (18)		
FILE NAME:	\89j092\structures\sj092ref.xls	PLOT DATE:	11/13/00
PROJECT	R.R.WHITCOMB	DRAWN BY:	K.CHISHOLM
DESIGNED BY:	T.A.SUMNER	CHECKED BY:	T.A.SUMNER
REINFORCING STEEL SCHEDULE SHEET #1		SHEET 25	OF 33