STATE OF VERMONT
AGENCY OF TRANSPORTATION

REINFORCING STEEL SCHEDULE

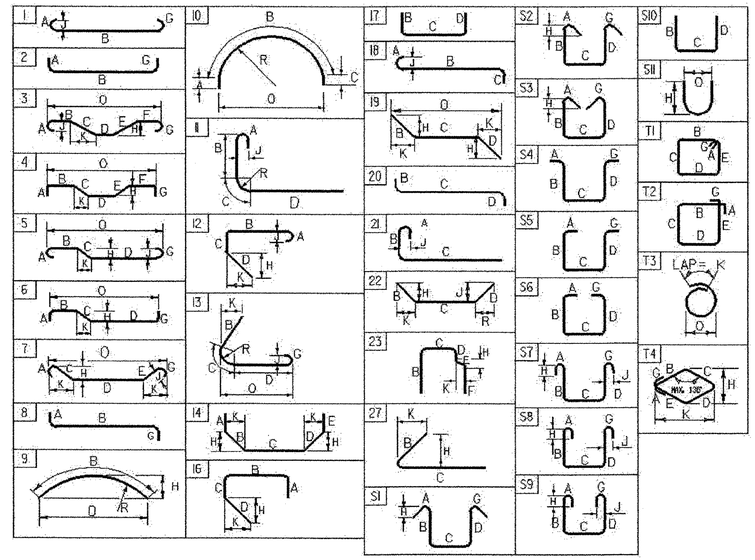
SI (ISO) Metric

ITEM	EACH	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
DECK																	
✳ ▲	126	16	6670	ES1601	STR												
▲	144	16	11250	ES1602	STR												
▲	72	16	12550	ES1603	STR												
✳ ▲	73	16	8950	ES1604	STR												
▲	338	16	10580	ES1605	STR												
	20	16	11050	ES1606	STR												
▲	10	16	11300	ES1607	STR												
▲	10	16	11300	ES1608	STR												
	173	16	3080	ES1609	S6	175	370	1930	430			175					
	19	16	2670	ES1610	S6	175	370	1530	420			175					
				ES1611	S6	NOT USED											
				ES1612	S5	NOT USED											
	140	16	1710	ES1613	S5	175	200	960	200			175					
	12	16	2810	ES1614	14	600	650	310	650	600			560		325		
✳ ▲	122	19	6670	ES1901	STR												
▲	136	19	11250	ES1902	STR												
▲	68	19	12550	ES1903	STR												
✳ ▲	69	19	8950	ES1904	STR												
▲	166	19	10580	ES1905	STR												
ABUTMENT NO. 1																	
▲	26	16	9140	1A1601A	STR												
▲	13	16	9410	1A1601B	STR												
▲	84	16	2270	1A1602	S10		830	610	830								
▲	84	16	2120	1A1603	S10		910	300	910								
	3	16	2990	1A1604	S4	660	530	610	530			660					
▲	86	25	1430	1A2501	STR												
▲	84	25	1290	1A2502	STR												
ABUTMENT NO. 1 EXTENSION																	
	12	16	1260	AX1601	STR												
▲	5	16	2000	AX1602	STR												
▲	12	16	3330	AX1604	STR												
✳	28	16	3370	AX1605	STR												
▲	12	16	3000	AX1606	STR												
▲	13	16	1500	AX1608	STR												
▲	7	16	1510	AX1603	17		1100	410	----								
▲	12	16	3660	AX1607	19		660	3000	----				700		70		
▲	13	16	1900	AX1609	17		1500	400	----								
▲	6	16	3980	AZ1610	19		1500	2480	----				1205		890		
ABUTMENT NO. 2																	
▲	13	16	10710	2A1601A	STR												
✳ ▲	14	16	8530	2A1601B	STR												
▲	63	16	2590	2A1602	S10		990	610	990								
▲	63	16	2120	2A1603	S10		910	300	910								
	3	16	2830	2A1604	S4	660	450	610	450			660					
△ ▲	61	25	1600	2A2501	STR												
▲	63	25	1290	2A2502	STR												
SIDEWALK																	
	17	16	8380	ESW1601	STR												
✳	31	16	2640	ESW1602	S6	175	160	1930	200			175					
	19	16	1520	ESW1603	S5	175	360	450	360			175					
	1	16	2650	ESW1604	S6	175	160	1940	200			175					
	1	16	2660	ESW1605	S6	175	160	1950	200			175					
	1	16	2675	ESW1606	S6	175	160	1965	200			175					
	1	16	2685	ESW1607	S6	175	160	1975	200			175					
	1	16	2700	ESW1608	S6	175	160	1990	200			175					
✳	2	16	2710	ESW1609	S6	175	160	2000	200			175					
	1	16	2725	ESW1610	S6	175	160	2015	200			175					
	1	16	2735	ESW1611	S6	175	160	2025	200			175					
	1	16	2750	ESW1612	S6	175	160	2040	200			175					
	1	16	2760	ESW1613	S6	175	160	2050	200			175					
	1	16	2775	ESW1614	S6	175	160	2065	200			175					
	1	16	2785	ESW1615	S6	175	160	2075	200			175					
	1	16	2800	ESW1616	S6	175	160	2090	200			175					
	1	16	2810	ESW1617	S6	175	160	2100	200			175					
	1	16	2825	ESW1618	S6	175	160	2115	200			175					
	1	16	2835	ESW1619	S6	175	160	2125	200			175					
	1	16	2850	ESW1620	S6	175	160	2140	200			175					
	1	16	2860	ESW1621	S6	175	160	2150	200			175					
	1	16	2875	ESW1622	S6	175	160	2165	200			175					
	1	16	2885	ESW1623	S6	175	160	2175	200			175					
	1	16	2900	ESW1624	S6	175	160	2190	200			175					
	1	16	2910	ESW1625	S6	175	160	2200	200			175					
	1	16	2920	ESW1626	S6	175	160	2210	200			175					
	1	16	2935	ESW1627	S6	175	160	2225	200			175					

ITEM	EACH	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
JUNCTION BOX																	
	68	16	2625	JB1603	STR												
✳	12	16	4030	JB1601A	17		850	2330	850								
	9	16	4620	JB1601B	17		840	2940	840								
	11	16	2680	JB1602A	1	175	2330					175					
	9	16	3290	JB1602B	1	175	2940					175					
✳	19	16	5010	JB1604	17		1520	1970	1520								
	18	16	5670	JB1605	17		1380	2910	1380								
✳ ▲	17	19	3340	JB1901	1	200	2940					200					
✳ ▲	21	19	2730	JB1902	1	200	2330					200					

~ NOTES ~

1. UNLESS OTHERWISE DESIGNATED, ALL BAR REINFORCEMENT FOR CONCRETE IN SIZES UP TO AND INCLUDING 55M SHALL CONFORM TO THE REQUIREMENTS OF THE "SPECIFICATIONS FOR DEFORMED BILLET-STEEL BARS FOR CONCRETE REINFORCEMENT", AASHTO M 31M (ASTM A 615M-SI). ALL BARS SHALL BE GRADE 420, 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 DENOTES EPOXY COATED REINFORCING STEEL.



ASTM STANDARD REINFORCING BARS

BAR SIZE	NOMINAL MASS (Kg/m)	NOMINAL DIMENSIONS ROUND SECTION		
		DIAMETER (mm)	CROSS SECTIONAL AREA (mm^2)	PERIMETER (mm)
#10	0.560	9.5	71	29.84
#13	0.994	12.7	129	39.90
#16	1.552	15.9	199	49.95
#19	2.235	19.1	284	60.00
#22	3.042	22.2	387	69.74
#25	3.973	25.4	510	79.80
#29	5.060	28.7	645	90.16
#32	6.404	32.3	819	101.47
#36	7.907	35.8	1006	112.47
#43	11.380	43.0	1452	135.09
#57	20.240	57.3	2581	180.01

PROJECT NAME: **BRATTLEBORO**
PROJECT NUMBER: **BHF 2000 (17)**

FILE NAME: **94j078\Structures\sj078rss.xls**
PROJECT MANAGER: **R. R. WHITCOMB**
DESIGNED BY: **T. SUMNER**
REINFORCING STEEL SCHEDULE SHEET #1

PLOT DATE: **02/03/2003**
DRAWN BY: **G. ROY**
CHECKED BY: **T. SUMNER**
SHEET **57** OF **71**