STATE OF VERMONT
AGENCY OF TRANSPORTATION

REINFORCING STEEL SCHEDULE

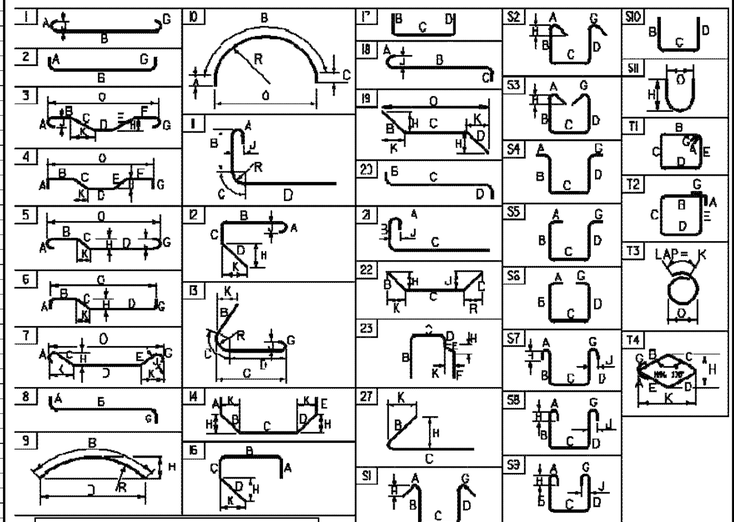
Metric

ITEM	EACH	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
ABUTMENT NO. 1																	
✳	29	16	5280	1EA16M01	STR												
	15	16	2910	1EA16M02	STR												
	10	16	1905	1EA16M03	STR												
	25	16	3680	1EA16M04	STR												
	48	16	3775	1EA16M05	22		1040	2735	---				735	---	735	---	
	4	16	4780	1EA16M06	STR												
	23	16	2190	1EA16M07	17		660	870	660								
✳	17	19	5350	1EA19M01	STR												
	52	19	2480	1EA19M02	17		815	850	815								
▲	119	19	3330	1EA19M03	STR												
	31	19	1525	1EA19M04	16	---	550	195	780				550		550		
✳	60	22	4820	1EA22M01	17		950	3870	---								
✳	37	25	1530	1EA22M02	16	---	---	530	1000				710		710		
ABUTMENT NO. 2																	
	30	16	5280	2EA16M01	STR												
✳	16	16	2910	2EA16M02	STR												
	10	16	1905	2EA16M03	STR												
	25	16	3680	2EA16M04	STR												
	48	16	3775	2EA16M05	22		1040	2735	---				735	---	735	---	
	4	16	4780	2EA16M06	STR												
	23	16	2190	2EA16M07	17		660	870	660								
	16	19	5350	2EA19M01	STR												
	52	19	2480	2EA19M02	17		815	850	815								
✳ ▲	120	19	3535	2EA19M03	STR												
	31	19	1525	2EA19M04	16	---	550	195	780				550		550		
✳	60	22	4820	2EA22M01	17		950	3870	---								
✳	37	25	1530	2EA25M01	16	---	---	530	1000				710		710		
WINGWALL NO. 1																	
	11	16	4095	1EW16M01	17		1860	375	1860								
✳	13	16	3850	1EW16M02	STR												
▲	22	16	1955	1EW16M03	STR												
	11	16	2285	1EW16M04	17		955	375	955								
	11	16	3930	1EW16M05	22		660	2610	660				470	470	470	470	
✳ ▲	13	22	3850	1EW22M01	STR												
WINGWALL NO. 2																	
	11	16	4595	2EW16M01	17		2110	375	2110								
	13	16	3850	2EW16M02	STR												
✳ ▲	23	16	1905	2EW16M03	STR												
	11	16	2285	2EW16M04	17		955	375	955								
	11	16	3930	2EW16M05	22		660	2610	660				470	470	470	470	
✳ ▲	14	22	3850	2EW22M01	STR												
WINGWALL NO. 3																	
	11	16	3855	3EW16M01	17		1740	375	1740				393			85093	2564
	12	16	2564	3EW16M02	9		2564										
▲	22	16	1915	3EW16M03	STR												
	1	16	2285	3EW16M04	17		955	375	955								
✳	13	16	1950	3EW16M05	STR												
	10	16	3930	3EW16M06	22		660	2610	660				470	470	470	470	
	12	22	2564	3EW22M01	9		2564						392			85383	2564
✳ ▲	13	22	1950	3EW22M02	STR												
WINGWALL NO. 4																	
	11	16	5035	4EW16M01	17		2330	375	2330								
	14	16	2562	4EW16M02	9		2562						352			94908	2562
✳ ▲	23	16	1850	4EW16M03	STR												
	11	16	2285	4EW16M04	17		955	375	955								
	14	16	1950	4EW16M05	STR												
	12	16	3930	4EW16M06	22		660	2610	660				470	470	470	470	
	14	22	2562	4WE22M01	9		2562						353			94618	2562
✳ ▲	15	22	1950	4WE22M02	STR												
APPROACH SLAB																	
✳	41	16	8776	EAS16M01	STR												
	70	29	6175	EAS29M01	1	495	5680					---		240			
✳	3	29	4000	EAS29M02	STR												
BRIDGE DECK																	
✳	453	16	10365	ES16M01	STR												
	10	16	6850	ES16M02	STR												
	440	16	2025	ES16M03	S5	400	400	425	400			400					
	14	16	4953	ES16M04	STR												
	2	16	2576	ES16M05	9		2576						396			85012	2575
	1	16	2576	ES16M06	9		2576						396			85175	2575
	2	16	2576	ES16M07	9		2576						396			85380	2575
	2	16	2575	ES16M08	9		2575						356			94920	2575
	1	16	2575	ES16M09	9		2575						356			94825	2575
	2	16	2575	ES16M10	9		2575						356			94989	2575
✳	527	19	10040	ES19M01	STR												
HEADWALL NO. 1 (900 MM PIPE)																	
	13	16	2235	1EW505	17		1194	1041									
	4	16	2285	1EW506	14	457	457	457	457	457			324		324		
	13	16	1398	1EW507	S10		610	178	610								
HEADWALL NO. 1 (450 MM PIPE)																	
	7	16	2083	2EW505	17		1194	889									
	4	16	1145	2EW506	14	229	229	229	229	229			162		162		
	7	16	1398	2EW507	S10		610	178	610								

ITEM	EACH	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O

~ 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. ANY EXTRA BARS NOT INCORPORATED INTO THE PROJECT SHALL BECOME THE PROPERTY OF THE AGENCY.
12. E IN BAR MARK PREFIX 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: CORNWALL
PROJECT NUMBER: BRS 0172(6)

FILE NAME: Z85E042RSS.XLS
PROJECT MANAGER: M. EVANS-MONGEON
DESIGNED BY: M. CRUZ
REINFORCING STEEL SCHEDULE

PLOT DATE: 2/15/2010
DRAWN BY: D. RITACCO
CHECKED BY: M. CRUZ
SHEET 109 OF 144