STATE OF VERMONT
AGENCY OF TRANSPORTATION

REINFORCING STEEL SCHEDULE

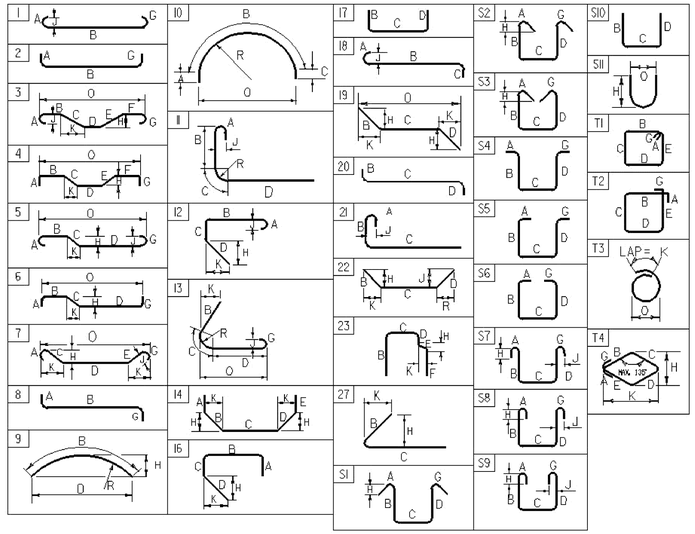
Metric

ITEM	EACH	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
SUPERSTRUCTURE																	
▲	236	16	10000	ES1601	STR												
✳	131	16	11450	ES1603	STR												
▲	22	16	11450	ES1607	STR												
	130	16	11726	ES1602	1	188	11350					188					
	65	16	4025	ES1604	S5	660	450	1825	430			660					
	65	16	2595	ES1605	S5	660	430	415	430			660					
	104	16	3350	ES1606	S5	660	990	170	870			660					
	80	16	1505	ES1608	16	300	450	215	540				---		---		
	40	25	1085	ES2501	22		410	675	---				---	---	---	---	---
ABUTMENT NO. 1																	
	20	16	1250	1A1601	S10		475	300	475								
	1	10g	13350	1AWWF	WWF												
ABUTMENT NO. 2																	
	20	16	1250	2A1601	S10		475	300	475								
	1	10g	12965	2AWWF	WWF												
WINGWALL NO. 1																	
▲	10	16	732	1W1601	STR												
▲	4	16	3470	1W1602	S10		1585	300	1585								
WINGWALL NO. 2																	
▲	10	16	832	2W1601	STR												
▲	4	16	3470	2W1602	S10		1585	300	1585								
WINGWALL NO. 3																	
▲	10	16	616	3W1601	STR												
▲	4	16	3470	3W1602	S10		1585	300	1585								
WINGWALL NO. 4																	
▲	10	16	563	4W1601	STR												
▲	4	16	3470	4W1602	S10		1585	300	1585								
APPROACH SLAB NO. 1																	
✳	21	16	8840	EAS160	STR												
✳	37	29	6177	EAS290	1	377	5800										
APPROACH SLAB NO. 2																	
✳	21	16	8840	EAS160	STR												
✳	37	29	6177	EAS290	1	377	5800										

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. 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 (mm²)	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: **HARDWICK**
PROJECT NUMBER: **BHF 030 - 2 (18) S**

FILE NAME: **z95j306rss.dgn**
PROJECT MANAGER: **J. W. TUCKER**
DESIGNED BY: **A. P. GUYETTE**
REINFORCING STEEL SCHEDULE

PLOT DATE: **11/24/2008**
DRAWN BY: **R. H. BARNES**
CHECKED BY: **E. P. DETRICK**
SHEET **33** OF **38**

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