ITEM	NO. PIECES	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
						SUPERSTRUCTURE											
1									GRADE 60								
2	184	5	36'-2"	S502	STR.												
3	318	5	32'-0"	S503	STR.												
4	8	5	36'-2"	1CW501	STR.												
5	8	5	36'-2"	2CW501	STR.												
6																	
7	184	5	37'-4"	S501	1	0-7	36-2					0-7					
8																	
9									GRADE 40								
10																	
11	186	5	4'-5"	S504	53	0-5½	1-3	1-0	1-3			0-5½	0-3¾				
12	40	5	10'-11"	1CW502	55	1-6	3-10	0-7	3-6			1-6					
13	40	5	10'-11"	2CW502	55	1-6	3-10	0-7	3-6			1-6					
14																	
15																	
16						ABUTMENT #1											
17																	
18 *	80	5	11'-3"	1A501	STR.												
19	36	5	36'-4"	1A502	STR.												
20 *	4	11	35'-0"	1A1101	STR												
21																	
22	74	5	7'-11"	1A503	17		2-9	2-5	2-9								
23	36	5	15'-5"	1A504	14		2-0	11-5	2-0				1-5			14-3	
24 *	23	8	6'-0"	1A301	19		2-6	3-6					2-3		1-4	5-0	
25																	
26						WINGWALL #1											
27	32	5	11'-4"	1W501	STR.												
28	28	5	16'-5"	1W502	STR.		—	CUT	TO	LENGTH	—						
29	28	5	7'-6"	1W503	STR.												
30	37	5	29'-0"	1W506	STR.												
31	10	5	27'-8"	1W507	STR.												
32	3	11	29'-0"	1W1101	STR.												
33									GRADE 40								
34																	
35	28	5	4'-0"	1W504	17		1-6	1-0	1-6								
36	30	5	5'-6"	1W505	17		1-6	2-6	1-6								
37																	
38																	
39						WINGWALL #2											
40		REBAR & QUANTITIES ARE SIMILAR TO WW #1 EXCEPT PIECEMARK IS															
41		PREFIXED BY "2W"															
42																	
43																	
44						TIE BEAM #1											
45																	
46	62	5	17'-5"	1T502	STR.												
47																	
48	32	5	41'-6"	1T501	2	2-9	36-0					2-9					
49																	
50									GRADE 40								
51																	
52	31	5	7'-11"	1T503	17		2-9	2-5	2-9								
53	31	5	6'-9"	1T504	10	1-6	3-9	1-6								1-2	2-4½
54																	
55						ABUTMENT #2											
56		REBAR & QUANTITIES ARE SIMILAR TO ABUT. #1 EXCEPT PIECEMARK IS															
57		PREFIXED BY "2A"															
58																	
59																	
60						WINGWALLS #3 & #4											
61		REBAR & QUANTITIES ARE SIMILAR TO WW #1 EXCEPT PIECEMARKS ARE															
62		PREFIXED BY "3W" & "4W" RESPECTIVELY															
63																	
64																	
65						TIE BEAM #2											
66		REBAR & QUANTITIES ARE SIMILAR TO TIE BEAM #1 EXCEPT PIECEMARK IS															
67		PREFIXED BY "2T"															
68																	
69																	
70						APPROACH SLAB #1											
71																	
72	21	5	29'-2"	1AS501	STR.												
73																	
74																	
75 *	24	10	21'-4"	1AS1001	1	1-10	19-6										
76																	
77																	
78						APPROACH SLAB #2											
79		REBAR & QUANTITIES ARE SIMILAR TO APPROACH SLAB #1 EXCEPT PIECEMARK															
80		IS PREFIXED BY "2AS"															

ITEM	NO. PIECES	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
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ITEM	NO. PIECES	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
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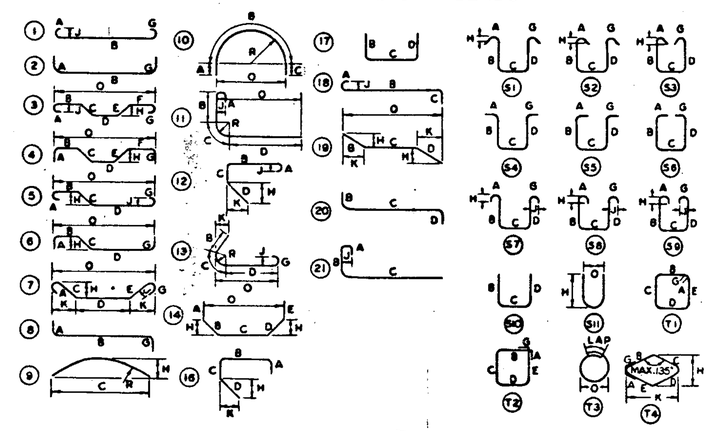
ASTM STANDARD REINFORCING BARS

BAR SIZE DESIGNATION	WEIGHT POUNDS PER FOOT	NOMINAL DIMENSIONS ROUND SECTION		
		DIAMETER INCHES	CROSS SECTIONAL AREA SQ. INCHES	PERIMETER INCHES
#3	.376	.375	.11	1.178
#4	.668	.500	.20	1.571
#5	1.043	.625	.31	1.963
#6	1.502	.750	.44	2.356
#7	2.044	.875	.60	2.749
#8	2.670	1.000	.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

TYPICAL BAR BENDS



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 615-51), GRADE 60.
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° AND 135° HOOKS.
5. "J" DIMENSION ON 180° 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° DIMENSIONS "H" AND "K" MUST BE SHOWN.

* DENOTES ONE EXTRA BAR ADDED FOR TESTING PURPOSES.

REV. NO.	MADE BY	DATE	DESCRIPTION

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TOWN OF HIGHGATE	BRIDGE NO. 182
HIGHWAY NO. U.S. RTE. 7	LOG STA. 225+52
	SURV. STA. 225+53
U.S. RTE. 7 OVER ROCK RIVER	
REINFORCING STEEL SCHEDULE	
DESIGNED BY M.J. PILOGRATO	DRAWN BY M.J. PILOGRATO
CHECKED BY A. ELWOOD DATE 7-83	BRIDGE DESIGN SUPERVISOR R.S. HAUFT DATE
PROJECT HIGHGATE	PROJECT NO. BRS 0285(1)S
BRIDGE SHEET NO. BR110	SHEET 23 OF 64

BRUNING 44-131 40151

BR-5