SUPERSTRUCTURE

ITEM	NO. PIECES	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
3	10	5	28-6	S501	STR												
5	30	6	26-5	S601	STR												
7 *	61	5	8-0	S502	S6	1-0	1-0	4-0	1-0			1-0					
9	51	9	29-9	S901	1	1-3	28-6										

GRADE 40

ABUTMENT #1

ITEM	NO. PIECES	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
15	33	5	3-9	1A501	STR												
16	12		33-2	1A502													
17	5		12-4	1A503													
18	54		11-5	1A504	▲												
19	5		13-8	1A505													
20	24	5	32-6	1A506	STR												
22	31	6	7-0	1A601	STR												
24	12	8	3-9	1A801	STR												
26	31	5	3-1	1A507	17		1-0	1-1	1-0								
28	31	7	8-0	1A701	17		3-1	4-11									

GRADE 40

WINGWALL #1

ITEM	NO. PIECES	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
35	10	5	3-9	1W501	STR												
36 *	14		11-0	1W502													
37	10		13-8	1W503	▲												
38	3	5	3-6	1W508	STR												
40 *	11	6	13-8	1W602	STR ▲												
42	10	9	9-0	1W901	STR												
44	12	5	10-7	1W504	19 ▲		1-0	9-7				0-10		0-6			
45	12		11-1	1W505	19 ▲		1-0	10-1				0-10		0-6			
46	2		9-8	1W506	19 ▲		2-8	7-0				2-4		1-4			
47	2		9-1	1W507	19 ▲		1-7	7-6				1-4		0-10			
48	1		10-5	1W509	19		3-0	7-5				1-2		2-9			
49	1		10-5	1W510	19		3-0	7-5				1-2		2-9			
50	10	5	3-1	1W511	17		1-0	1-1	1-0								
52	10	6	6-5	1W601	17		3-10	2-7									
54	9	7	10-10	1W701	17		8-3	2-7									

GRADE 40

WINGWALL #2

ITEM	NO. PIECES	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
59	14	5	3-9	2W501	STR												
60	13		15-0	2W502													
61	14		12-4	2W503	▲												
62	3	5	3-3	2W508	STR												
64	14	6	12-4	2W602	STR ▲												
66	14	9	9-0	2W901	STR												
68	11	5	14-7	2W504	19		1-0	13-7				0-8		0-8			
69	11		15-6	2W505	19		1-0	14-6				0-8		0-8			
70	2		12-0	2W506	19 ▲		2-6	9-6				1-9		1-9			
71	2		11-5	2W507	19 ▲		1-0	10-5				0-8		0-8			
72	1		14-0	2W509	19		3-0	11-0				0-7		2-11			
73	1		14-0	2W510	19		3-0	11-0				0-7		2-11			
74	14	5	3-1	2W511	17		1-0	1-1	1-0								
76	14	6	6-5	2W601	17		2-7	3-10									
78	13	7	10-10	2W701	17		2-7	8-3									

GRADE 40

ABUTMENT #2

ITEM	NO. PIECES	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
83	33	5	3-9	2A501	STR												
84	12		33-2	2A502													
85	5		14-5	2A503													
86	54		12-2	2A504	▲												
87	5		13-2	2A505													
88	26	5	32-6	2A506	STR												
91	31	6	7-0	2A601	STR												
94 *	14	8	3-9	2A801	STR												
97	31	5	3-1	2A507	17		1-0	1-1	1-0								
100 *	32	7	8-0	2A701	17		3-1	4-11									

GRADE 40

WINGWALL #3

ITEM	NO. PIECES	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
106	16	5	3-9	3W501	STR												
107	13		17-0	3W502													
108	16		14-5	3W503	▲												
109	3	5	3-3	3W508	STR												
112	16	6	14-5	3W602	STR ▲												
115 *	17	9	9-0	3W901	STR												
118	13	5	16-6	3W504	19		1-0	15-6					0-8		0-8		
119	13		17-5	3W505	19		1-0	16-5					0-8		0-8		
120	2		14-6	3W506	19 ▲		2-6	12-0					1-9		1-9		
121	2		13-11	3W507	19 ▲		1-0	12-11					0-8		0-8		
122	1		15-9	3W509	19		3-0	12-9					0-6		2-11		
123	1		15-9	3W510	19		3-0	12-9					0-6		2-11		
124	16	5	3-1	3W511	17		1-0	1-1	1-0								
127	16	6	6-5	3W601	17		2-7	3-10									
129	15	7	10-10	3W701	17		2-7	8-3									

GRADE 40

WINGWALL #4

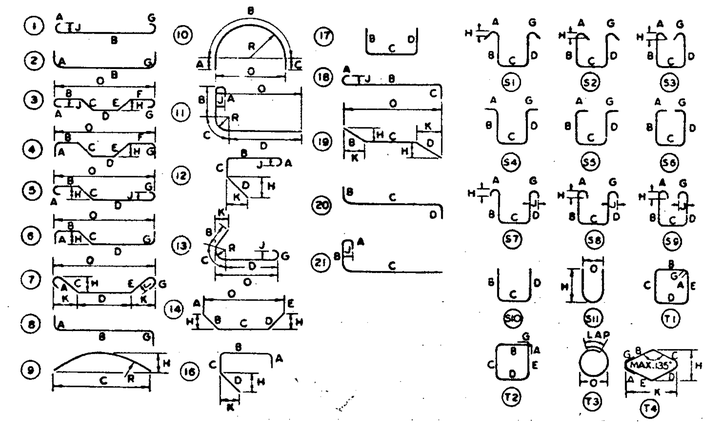
ITEM	NO. PIECES	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
136	11	5	3-9	4W501	STR												
137	13		12-0	4W502													
138	11		13-2	4W503	▲												
139	3	5	3-6	4W508	STR												
142	11	6	13-2	4W602	STR ▲												
144	11	9	9-0	4W901	STR												
146	12	5	11-6	4W504	19 ▲		1-0	10-6					0-10		0-6		
147	12		12-0	4W505	19 ▲		1-0	11-0					0-10		0-6		
148	2		9-0	4W506	19 ▲		2-9	6-3					2-4		1-4		
149	2		8-3	4W507	19 ▲		1-6	6-9					1-4		0-9		
150	1		11-6	4W509	19		3-0	8-6					1-4		2-8		
151	1		11-6	4W510	19		3-0	8-6					1-4		2-8		
152	11	5	3-1	4W511	17		1-0	1-1	1-0								
155	11	6	6-5	4W601	17		2-7	3-10									
157	10	7	10-10	4W701	17		2-7	8-3									

GRADE 40

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 A615-51), GRADE 60. OR GRADE 40 AS NOTED.
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 BARS TO BE CUT IN FIELD
* DENOTES ONE EXTRA BAR ADDED FOR TESTING PURPOSES.

REV. NO.	MADE BY	DATE	DESCRIPTION

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TOWN OF MORRISTOWN — BRIDGE NO. 35 — LOG STA. —
HIGHWAY NO. TH #64 — SURV. STA. 8+60.50

TH #64 OVER STERLING BROOK

REINFORCING STEEL SCHEDULE

DESIGNED BY C.P. WILLIAMS — DRAWN BY C.P. WILLIAMS
CHECKED BY G.S. ROGERS — BRIDGE DESIGN SUPERVISOR
DATE 9/84 — F.W. Bolkum — DATE 9/84

PROJECT MORRISTOWN — PROJECT NO. FTH 3531
BRIDGE SHEET NO. — SHEET 8 OF 23

BR-5